

**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

FINJAN SOFTWARE, LTD., an Israel  
corporation,

Plaintiff,

v.

SECURE COMPUTING CORPORATION,  
a Delaware corporation, CYBERGUARD,  
CORPORATION, a Delaware corporation,  
WEBWASHER AG, a German corporation  
and DOES 1 THROUGH 100,

Defendants.

C. A. No. 06-369-GMS

**APPENDIX TO PLAINTIFF FINJAN SOFTWARE LTD.'S OPPOSITION  
TO DEFENDANT-COUNTERCLAIMANTS' MOTION FOR JUDGMENT  
AS A MATTER OF LAW PURSUANT TO FED. R. CIV. P. 50 AND, IN  
THE ALTERNATIVE, MOTION FOR NEW TRIAL AND/OR  
REMITTITUR PURSUANT TO FED. R. CIV. P. 59**

OF COUNSEL:

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Dated: May 9, 2008

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**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

**CERTIFICATE OF SERVICE**

I, Philip A. Rovner, hereby certify that on May 9, 2008, the within document was filed with the Clerk of the Court using CM/ECF which will send notification of such filing(s) to the following; that the document was served on the following counsel as indicated; and that the document is available for viewing and downloading from CM/ECF.

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I hereby certify that on May 9, 2008 I have sent by E-mail the foregoing document to the following non-registered participants:

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# **EXHIBIT 1**

## **PART 1**

1

1 IN THE UNITED STATES DISTRICT COURT  
2 IN AND FOR THE DISTRICT OF DELAWARE

3  
4 FINJAN SOFTWARE LTD., : Civil Action  
5 :  
6 Plaintiff, :  
7 :  
8 v. :  
9 SECURE COMPUTING CORPORATION, :  
10 CYBERGUARD CORPORATION, :  
11 WEEMASHERE AG and DOES 1 :  
12 THROUGH 100, :  
13 Defendants. : 06-459-GMS

14  
15 Wilmington, Delaware  
16 ~~Monday, February 4, 2008~~ *MARCH 3, 2008*  
17 8:30 a.m.

18 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge

19 APPEARANCES:

20 PHILIP A. ROVNER, ESQ.  
21 Potter Anderson & Corroon LLP  
22 -and-  
23 PAUL J. ANDRE, ESQ.,  
24 LISA KOBIALKA, ESQ.,  
25 JAMES HANNAH, ESQ.,  
MEGHAN WARTON, ESQ.,  
KRIS KASTENS, ESQ., and  
HANNAH LEX, ESQ.,  
King & Spalding  
Silicon Valley, California  
Counsel for Plaintiff

1 THE COURT: Good morning. Please be seated.

2 (Counsel respond "Good morning.")

3 THE COURT: Where are my jury instructions?

4 Okay. I am hoping that GSA will do something with the  
5 temperature in here.

6 Okay. There are some issues.

7 MR. ANDRE: There are a few issues, Your Honor.

8 Paul Andre for plaintiff, Finjan Software.

9 The first issue, Your Honor, comes with regard

10 to our pretrial conference. Your Honor instructed us to  
11 meet and confer with counsel regarding experts and what is  
12 in the expert report. One of the issues that came up was  
13 their expert's attempt to argue in the alternative on claim  
14 interpretation. And Your Honor told them to pick a  
15 position. And it was clear that they were supposed to come  
16 up with one position on a term. They haven't.

17 So that was the first issue, is the term list.

18 THE COURT: Do you have a specific complaint,

19 Mr. Andre?

20 MR. ANDRE: The specific complaint is they are  
21 using the word list --

22 THE COURT: It's list, okay.

23 MR. ANDRE: The word list, one way for  
24 infringement and another way for invalidity.

25 THE COURT: Fine. Counsel.

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1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
3 KELLY J. FARNAN, ESQ.,  
4 Richards, Layton & Finger  
5 -and-  
6 RONALD J. SCHUTZ, ESQ.,  
7 CHRISTOPHER A. SEIDL, ESQ.,  
8 TREVOR J. FOSTER, ESQ., and  
9 JAKE HOLDREITH, ESQ.,  
10 Robins, Kaplan, Miller & Ciresi, L.L.P.,  
11 (Minneapolis, MN)  
12 Counsel for Defendants  
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1 MR. HOLDREITH: Your Honor, good morning. Jake  
2 Holdreith from Robins, Kaplan.

3 Mr. Wallach was very clear that his definition  
4 was a data structure such as Link List. That is how he did  
5 his infringement analysis. He is commenting on the  
6 plaintiff, Finjan's interpretation of list in the validity  
7 case.

8 What Finjan seems to be doing is saying they  
9 don't want him to comment on their definition. There is a  
10 disagreement between the experts on what the meaning of the  
11 word is. Our guys wants to comment on, If it means what I  
12 say it means, here's the case. If it means what they say it  
13 means, here is the case. That is perfectly proper.

14 THE COURT: But he is not adopting, he is not  
15 asserting a definition A and definition B.

16 MR. HOLDREITH: Absolutely not, no. He is very  
17 clear about his definition.

18 MR. ANDRE: Your Honor, that is incorrect. He  
19 is taking both positions. He is saying that for  
20 infringement --

21 THE COURT: Why can't we wait until he testifies  
22 and find out?

23 MR. ANDRE: We can, Your Honor. It is something  
24 we wanted to raise.

25 THE COURT: If it occurs to you and your team



1 making a decision; and, finally, your deliberations, which  
2 will be valuable for you to discuss the case and the  
3 evidence among yourselves and determine the outcome of the  
4 case.

5 Please keep in mind that evidence is often  
6 introduced in a somewhat piecemeal fashion. So, as the  
7 evidence comes in, you, as jurors, need to keep an open  
8 mind.

9 I think I have made clear what the trial  
10 schedule will be.

11 THE COURT: About how long, Mr. Andre?

12 MR. ANDRE: About 45 minutes, maximum.

13 THE COURT: We will hear from the plaintiffs  
14 first.

15 MR. ANDRE: May it please the Court.

16 THE COURT: You may proceed.

17 MR. ANDRE: Good morning, ladies and gentlemen  
18 of the jury.

19 My name is Paul Andre. I am representing Finjan  
20 Software, along with my colleagues here, you will see over  
21 the next nine days, hopefully you won't see us on weekends.

22 As Judge Sleet has informed you, this is a  
23 patent infringement case involving computer security. Now,  
24 computer security has become very important as of late  
25 because of just the amount of information that is on

1 computer systems now. Most of us do online banking, we shop  
2 online. And businesses and industry use what the most  
3 confidential information on computer systems.

4 So computer security has become extremely  
5 evolved over the last 10 to 15 years.

6 The technology in this case is going to be very  
7 complex. I am not going to try to sugarcoat that. It is  
8 complex technology. But the facts in this case are very  
9 simple.

10 I am going to talk to you first about some of  
11 the facts that are going to be presented over the next seven  
12 court days. Then I will try to describe some of the  
13 technology to you as well.

14 The first fact that you are going to hear or one  
15 of the early facts you will hear is in 1996, Finjan Software  
16 was founded and that company was founded based on the idea  
17 of the inventor of these patents that there is a better way  
18 to protect computers. It's a new way of ensuring that  
19 computers do not get infected with viruses or other type of  
20 malicious code.

21 Now, from 1996 up to the early 2000 time period,  
22 Finjan, being a very small company, they were making some  
23 sales, but the technology was not viewed as acceptable to  
24 some of the industry. They had traditional technology,  
25 signature-based technology. We will describe what that is.

1 In fact, the defendants in this case were one of  
2 the leading providers of traditional technology. They  
3 discredited Finjan's technology. You are going to see  
4 evidence, like Plaintiff's Exhibit No. 31. And this is from  
5 the defendants, in which they say the theoretical virus  
6 threat that Finjan did protect us for is close to zero,  
7 especially if a normal A.V. scanner is used instead, "A.V."  
8 meaning antivirus, the traditional approach. They were  
9 difficulties crediting Finjan's software in 2002.

10 You are going to see Exhibit 33. Exhibit 33 is  
11 also a document from the defendants. This is dated a little  
12 later in time. Here they talk about Finjan's product, which  
13 they called SurfinGate for Web 7.0 offers only one feature  
14 that a Webwasher does not have: Proactive behavior  
15 inspection.

16 You will hear that a lot, proactive protection,  
17 as opposed to reactive. And I will talk about that shortly.

18 The defendants were stating at that time that  
19 investigations show that this technology is quite weak and  
20 does not add substantial additional security to an Internet  
21 Gateway filtering product.

22 The defendants in this case discredited this  
23 type of technology continually through the early 2002, 2003  
24 time period.

25 But Finjan's technology was starting to get some

1 traction. You are going to see evidence, as in Exhibit 32,  
2 where they started looking at Finjan's technology. Here you  
3 will see that they actually tested Finjan's products. They  
4 wrote some information on it. They tested by what was  
5 Finjan doing because it was starting to get some market  
6 acceptance.

7 You are also going to see that later on, in  
8 another one of their documents, Exhibit No. 35, that when  
9 they talk about proactive security, it was a key trend  
10 identified by IDC.

11 Now, IDC, you are going to hear evidence in this  
12 case, is a company that does analyst -- they are analysts.  
13 They do market analysis and this kind of information. You  
14 will hear that people in this industry listen to IDC. They  
15 get their reports. This is how they look at the market.

16 You are also going to see that these defendants  
17 make a statement here that they have to develop their own  
18 technology or create something similar to Finjan.

19 So in the 2004 time period, these defendants  
20 were now looking into the idea of going into proactive  
21 security, considering whether they want to develop their own  
22 technology or do something like Finjan's Plaintiff's.

23 Exhibit 36, you are going to see Plaintiff's  
24 Exhibit 36 quite often. This is an e-mail chain between  
25 some high-up executives within these defendants' companies.

Ben-Itzhak - direct

1 this proactive security technology?

2 A. Finjan has several patents that covers proactive

3 security technology.

4 Q. Now, do you have a copy of the booklet provided to

5 you?

6 A. No, I don't have it in front of me.

7 MR. ANDRE: Your Honor, may I approach the

8 witness?

9 THE COURT: You may, Mr. Andre.

10 MR. ANDRE: Thank you.

11 BY MR. ANDRE:

12 Q. Mr. Ben-Itzhak, would you please look at what is in

13 the jury books marked as JTX-1. That is the one with the

14 U.S. Patent with the number ending in '194. Do you see that

15 document?

16 A. Yes, I do.

17 Q. Have you ever seen this Joint Exhibit No. 1 before?

18 A. Yes. I did see this document before.

19 Q. What is JTX-1?

20 A. It's a Finjan patent, '194. That is also in this

21 case.

22 Q. Would you look on, I believe it's the tab after that,

23 that is the document marked as JTX-2.

24 Do you see that document?

25 A. Yes, I do.

218

Ben-Itzhak - direct

1 Q. And have you seen that document before?

2 A. Yes. I saw this document before.

3 Q. And what is JTX-2?

4 A. JTX-2 is the '780 patent of Finjan that is also in

5 this case.

6 Q. And I believe the next tab is JTX-3. Would you please

7 look at that exhibit, please?

8 A. Yes.

9 Q. Have you seen this document before?

10 A. Yes.

11 Q. And do you know what JTX-3 is?

12 A. It's another Finjan patent, No. '822. That is also

13 part of this case.

14 Q. Mr. Ben-Itzhak, how does Finjan use these patents to

15 protect its technology?

16 A. We enforce them, like here, like in this case.

17 Q. And does Finjan mark its products with its patents

18 that protects those products?

19 A. Yes, we do. We do mark our products with our patents.

20 Q. Now, when we talk about marking the products, what are

21 you referring to?

22 A. We are adding the patent numbers to the product,

23 actually to the user interface of the product. If you are

24 using the product, you will see the numbers shown there on

25 the first screen. We also include that in the documentation

Ben-Itzhak - direct

1 of the product. We also include these numbers on our

2 website. You can go on our website and see the list of all

3 the patents that Finjan holds.

4 This is how we present it.

5 Q. If you turn to the next tab, you will see a JTX-4. Do

6 you see that?

7 A. Yes, I do.

8 Q. Do you recognize that document?

9 A. Yes. This is a user manual for vital security,

10 Finjan.

11 Q. And if you turn to the second page of this document,

12 you will see a copyright on the second page. Do you see

13 that?

14 A. Yes, I do.

15 Q. When was this document published?

16 A. 2004.

17 Q. And if you look on the, it looks to be the fourth

18 paragraph, it states, "The Finjan Software products

19 described in this document are protected by U.S. patents,"

20 and it lists a series of patents there.

21 Do you see that?

22 A. Yes, I do.

23 Q. Is the '194 patent listed there?

24 A. Yes, the '194 is the first patent shown there.

25 Q. And is the '780 patent listed in that list?

220

Ben-Itzhak - direct

1 A. Yes. The '780 patent is shown there as well.

2 Q. Now, in this 2004 document, the '822 patent is not

3 listed there, is it?

4 A. I don't see the '822 patent shown.

5 Q. If you will turn back to JTX-3, you will see the '822

6 patent, in the right corner, the issue date?

7 A. Yes.

8 Q. Do you see that, June 6, 2006?

9 A. Yes, I do.

10 Q. Now, what is Finjan's practice, how it marks its

11 products with their patent once the patent issues?

12 A. When the patent issues, we add the patent number to

13 the presentation.

14 Q. I don't think this is in the manual here. We will

15 just show on the screen. It's a document, Exhibit 1070.

16 JTX-1070.

17 If you will go to the, I believe it's the second

18 page of that document, you will see that the patent numbers

19 are listed in that document as well.

20 Do you see that?

21 A. Yes, I do.

22 Q. And do you see where the '822 patent is listed on that

23 document?

24 A. Yes, I do.

25 Q. Now, are there any other ways that Finjan gives notice

1 the case.

2 So in the very first deposition in the case,  
3 they asked Gallagher, Who is this Kruse guy? And they were  
4 told, He is the guy responsible for the TSP product.

5 THE COURT: Was a direct question interposed to  
6 your client, or counsel, asking for a specific  
7 identification of this type of witness? I would imagine it  
8 would have been.

9 MR. HOLDREITH: I don't understand there is a  
10 contention in the case that there was an interrogatory to  
11 which we failed to respond.

12 THE COURT: Or some other request?

13 MR. HOLDREITH: I don't understand there is any  
14 contention of that nature. If there is, I will certainly  
15 respond to it.

16 THE COURT: Is there such a contention?

17 MR. ANDRE: The contention is that they provided  
18 us with their initial disclosures. They supplemented on  
19 December 8, 2006. This person was never identified in  
20 initial disclosures. When we asked them to identify people  
21 in the interrogatories, you know, who would have useful  
22 information, they didn't identify this individual. The  
23 first time we saw his name with relation to this case was in  
24 the witness list.

25 He was identified in the deposition as, you

238

1 know, Who is this guy? And they said, You know, he is in  
2 the firewall division. That's 10,000 people. Who knows?

3 MR. HOLDREITH: If there is an allegation there  
4 is an interrogatory to which his name was responsive, I will  
5 need to see the actual interrogatory. I would probably need  
6 overnight to study it and figure out what our position is.

7 MR. ANDRE: We have Interrogatory No. 25.  
8 "Identify each and every person involved in the research,  
9 development, design, troubleshooting, manufacture,  
10 marketing, distribution, sale or licensing of the security  
11 products, which include without limitation, Cyberguard TSP,"  
12 which is what they are talking about, "and describe in  
13 detail the role each person played." He wasn't identified.

14 THE COURT: Counsel.

15 MR. HOLDREITH: The first I heard it, of course.  
16 I don't know what our response is, as I stand here. I  
17 haven't memorized it all. I would be interested in seeing  
18 it.

19 THE COURT: All right.

20 MR. HOLDREITH: What I would like to do is look  
21 at this overnight, if that is the contention?

22 THE COURT: Sure. Would you like the evening to  
23 think about that?

24 MR. HOLDREITH: Yes, Your Honor. I will look at  
25 these. But we did, under 33(d), disclose about 20 or 30

1 documents in response to that answer. So I will have to  
2 study those and see whether Mr. Kruse is named in those.

3 THE COURT: Yes. You need to think about  
4 whether the mere disclosure of documents, when a request has  
5 been interposed to disclose individuals, is adequate under  
6 the rules.

7 MR. HOLDREITH: I don't think there was any  
8 objection to our response or any motion to compel or request  
9 for us to be more specific.

10 THE COURT: Fair enough. But there is also an  
11 obligation at the outset to be responsive to the request.

12 We will hopefully not talk about it tomorrow but  
13 we will see.

14 MR. ANDRE: To give an example, Your Honor, we  
15 had a new CEO come on our company, Mr. Vigaro (phonetic),  
16 who is here today. He didn't start until October or  
17 November. We put him on our witness list. They objected on  
18 the same grounds. We did not disclose him. We took him  
19 off. We are asking them to do the same.

20 THE COURT: Okay. Anything else?

21 MR. HOLDREITH: No, Your Honor. I will look at  
22 the documents so I can have a final response. I will confer  
23 with counsel, see if we can work it out. If we can't, I  
24 will state our position.

25 THE COURT: Anything else we should talk about?

240

1 MR. ANDRE: Not that I know of.

2 THE COURT: Counsel, see you at 8:30.

3 (Court recessed at 4:40.)

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6 Reporter: Kevin Maurer.

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241

1 IN THE UNITED STATES DISTRICT COURT  
 2 IN AND FOR THE DISTRICT OF DELAWARE  
 3  
 4 FINJAN SOFTWARE LTD., : Civil Action  
 : No. 06-369 (GMS)  
 5 Plaintiff, :  
 6 v. :  
 7 SECURE COMPUTING CORPORATION, :  
 8 CYBERGUARD CORPORATION, :  
 9 WEBWASHERE AG and DOES 1 :  
 : THROUGH 100, :  
 10 Defendants. :  
 11  
 12 Wilmington, Delaware  
 13 Tuesday, March 4, 2008  
 14 8:30 a.m.  
 15 Day Two of Trial  
 16  
 17 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
 and a Jury  
 18  
 19 APPEARANCES:  
 20 PHILIP A. ROVNER, ESQ.  
 21 Potter Anderson & Corroon LLP  
 22 -and-  
 23 PAUL J. ANDRE, ESQ.,  
 24 LISA KOBIALKA, ESQ.,  
 25 JAMES HANNAH, ESQ.,  
 MEGHAN WARTON, ESQ.,  
 KRIS KASTENS, ESQ., and  
 HANNAH LEE, ESQ.  
 King & Spalding  
 (Silicon Valley, California)  
 Counsel for Plaintiff

1 THE COURT: Please be seated. Good morning.  
 2 (Counsel respond "Good morning.")  
 3 THE COURT: I understand there is 110 issue? Or  
 4 am I misinformed?  
 5 MR. ROGERS: Your Honor, there is 110, the IDC  
 6 report. We attempted to redact it. Mr. Rovner will be  
 7 arguing for us on this 110. We were not able to reach  
 8 agreement.  
 9 THE COURT: Mr. Rovner.  
 10 MR. ROVNER: I don't know if you want to hear  
 11 from Mr. Schutz first.  
 12 THE COURT: Yes. It's his objection.  
 13 MR. SCHUTZ: Your Honor, the IDC report has --  
 14 there is 110 report, I believe; am I correct, that you want  
 15 to introduce this morning?  
 16 MR. ROVNER: 23.  
 17 MR. SCHUTZ: PTX-23, so we are clear for the  
 18 record. PTX-23 has 32 pages in it. If they redact two of  
 19 those 32 pages, I would withdraw my objection. As I  
 20 understand what they want to establish with this report,  
 21 Judge, it is that there was a trend toward behavior-based  
 22 technology. And if they want to do that, I submit they  
 23 don't need this self-serving hearsay endorsement by IDC of  
 24 Finjan.  
 25 THE COURT: Under the heading "Overview"?

242

1 APPEARANCES (Continued):  
 2  
 3 FREDERICK R. COTTRELL, III, ESQ., and  
 4 KELLY E. FARNAN, ESQ.  
 Richards, Layton & Finger  
 -and-  
 5 RONALD J. SCHUTZ, ESQ.,  
 6 CHRISTOPHER A. SEIDL, ESQ.,  
 7 TREVOR J. FOSTER, ESQ., and  
 8 JAKE M. HOLDREITH, ESQ.  
 Robins, Kaplan, Miller & Ciresi, L.L.P.  
 (Minneapolis, MN)  
 9  
 10 Counsel for Defendants  
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244

1 MR. SCHUTZ: Under "Finjan Software Overview."  
 2 These reports have vendor profiles in them. And the vendor  
 3 profiles are, in essence, taken from press releases and  
 4 self-serving statements that the vendors supply to IDC. So  
 5 this is 110 of the 32 pages. It's just about Finjan.  
 6 They don't need it to prove the point that they  
 7 have told the Court they want to make, which is the market  
 8 is moving toward behavior-based, because that's what the  
 9 rest of the report is about. And, of course, it says,  
 10 "SurfinGate for e-mail delivers a patented realtime content  
 11 inspection process." Well, we dispute that. So if this  
 12 were to come in, I can't cross-examine this report --  
 13 THE COURT: Where were you just reading from?  
 14 MR. SCHUTZ: Right here at the top where I have  
 15 got the arrow, Judge.  
 16 There is a lot of other self-serving stuff here,  
 17 too. Right here, they have got, "Finjan Software is a  
 18 pioneer in proactive content behavior inspection."  
 19 So they are trying to use again a hearsay  
 20 document to validate what Finjan is asserting in this case,  
 21 that they are pioneers. Well, I can't cross-examine this  
 22 report.  
 23 THE COURT: I am reluctant to accept your  
 24 overall characterization of the document of hearsay in its  
 25 entirety. Perhaps there are elements of the document that

1 underlining or make any use of it during this case. With  
 2 that representation, I will withdraw my objection.  
 3 MS. KOBIALKA: We want to be clear, what we have  
 4 attached, we provided, Exhibit 9A, is the actual exhibit  
 5 attached to the original transcript and we haven't done  
 6 anything in terms of editing in. We are fine with not  
 7 referring to it. But we wanted to put that on the record.  
 8 THE COURT: Not referring to the underlining?  
 9 MS. KOBIALKA: The underlining that they are  
 10 concerned about.  
 11 THE COURT: So stipulated.  
 12 MR. ANDRE: One housekeeping matter, Your Honor.  
 13 Our next witness after Mr. Ben-Itzhak, he will be off  
 14 shortly, is one of the inventors. Then we have some  
 15 deposition testimony we are going to read into the record.  
 16 I have not done this in your Court before, so I  
 17 am not sure of the procedure. We would like to have one of  
 18 our attorneys read the questions and another attorney  
 19 sitting there. Is that acceptable?  
 20 THE COURT: Yes, that's fine. Approximately,  
 21 how long will it take to accomplish that?  
 22 MR. ANDRE: This will be very short. 15  
 23 minutes, 20 minutes. It's a very short deposition  
 24 transcript. Then the exhibits that are identified in the  
 25 transcript are exhibit numbers for the depo. We also have

254

1 PTX numbers for those, we will identify those at the time.  
 2 THE COURT: They are admitted.  
 3 MR. ANDRE: Thank you.  
 4 THE COURT: You can identify them at the time,  
 5 sure.  
 6 Ms. Walker.  
 7 THE COURT: Mr. Ben-Itzhak, would you come up,  
 8 sir.  
 9 (Jury enters courtroom at 9:03 a.m.)  
 10 THE COURT: Good morning, members of the jury.  
 11 Please be seated.  
 12 Mr. Ben-Itzhak. I think we left off at some  
 13 point yesterday with the Direct Examination, during the  
 14 Direct Examination of Mr. Ben-Itzhak. And we will continue  
 15 that.  
 16 Mr. Ben-Itzhak, you are still under oath.  
 17 YUVAL BEN-ITZHAK, having been duly  
 18 sworn as a witness, was examined and testified further as  
 19 follows:  
 20 MR. ANDRE: Good morning, ladies and gentlemen.  
 21 DIRECT EXAMINATION  
 22 BY MR. ANDRE:  
 23 Q. Mr. Ben-Itzhak, yesterday, when we were wrapping up  
 24 the day, we were talking about reports that you reviewed  
 25 from a company called IDC.

Ben-Itzhak - direct

1 Do you recall that?  
 2 A. Yes, I do recall that.  
 3 Q. I am going to hand to you, and to the ladies and  
 4 gentlemen of the jury, this is not in your jury book, this  
 5 is PTX-23.  
 6 MR. ANDRE: Your Honor, may I approach the  
 7 witness?  
 8 THE COURT: Yes, you may.  
 9 BY MR. ANDRE:  
 10 Q. Mr. Ben-Itzhak, do you recognize what has been handed  
 11 to you as Plaintiff's Exhibit 23?  
 12 A. Yes, it's a market analysis report by IDC.  
 13 Q. If you look at the bottom, the very bottom of this  
 14 document, it has the following information. It has the date  
 15 of August 2003.  
 16 Do you see that?  
 17 A. Yes, I do.  
 18 Q. Mr. Ben-Itzhak, do you recall seeing these IDC reports  
 19 within the time frame of August 2003 and thereafter?  
 20 A. Yes. I remember seeing this report while I was in  
 21 Finjan.  
 22 Q. Now, if you look at the first page, and the very last  
 23 bullet point on this first page, could you tell us what that  
 24 is talking about?  
 25 A. It highlights, key highlight in the study saying

256

Ben-Itzhak - direct

1 several proactive virus technologies, such as behavior-based  
 2 analysis and heuristics, are becoming part of organization's  
 3 security architectures.  
 4 Q. Based on your experience in the industry, prior to  
 5 this report, was this type of behavior-based analysis and  
 6 heuristics, was that an important part of a company's  
 7 computer security systems?  
 8 A. It is a problem that IDC reported here, and indicating  
 9 that more and more companies are starting to use this  
 10 technology, having the reactive and anti-virus detection  
 11 limitation we talked about yesterday.  
 12 Q. If you will turn to Page 19 of this report, ending in  
 13 Bates Nos. 855. The bottom paragraph is entitled, "New  
 14 Solutions." This paragraph begins, "As megaworms jump from  
 15 network to network at immeasurable rates of speed, the  
 16 demand for more proactive virus protection technologies has  
 17 become behind due to the rationale of hybrid threats," it  
 18 lists some of those threats out, e.g., Nimda Code read, and  
 19 Bugbear, that have escaped traditional signature-based virus  
 20 measures.  
 21 Then it goes on to the next-to-last sentence and  
 22 states that, "IDC believes that several proactive  
 23 technologies will increasingly become part of organizations'  
 24 security architectures."  
 25 Do you see that?



Ben-Itzhak - direct

- 1 A. Yes, I do.
- 2 Q. Someone in the computer security field, what is that
- 3 paragraph telling you?
- 4 A. What I understand from this paragraph is there are new
- 5 type of threats that are starting to be used by criminals on
- 6 the networks. And they manage to escape a signature-based
- 7 virus measure as mentioned here failed to detect it. As
- 8 previously, yesterday, as I provided the example of a photo
- 9 album showing all the pictures of the criminals, and if
- 10 someone else is come in, the picture doesn't exist in this
- 11 photo album, this is just an exact example, as written here,
- 12 this NIMDA Code read and Bugbear, their photos or their
- 13 signatures were not in the anti-virus database. As a
- 14 result, they managed to escape it.
- 15 This is my understanding. And IDC, what they
- 16 write here, it's, Proactive technology is needed because you
- 17 can no longer rely on the signature. So that is my
- 18 understanding.
- 19 Q. At the time of this report in August, 2003, did Finjan
- 20 have proactive technologies in their products?
- 21 A. In 2003, Finjan had this product technology.
- 22 Q. To your knowledge, did the defendants have proactive
- 23 technology in their products?
- 24 A. To my understanding, they didn't have that at that
- 25 time. It seems the products released later.

258

Ben-Itzhak - direct

- 1 Q. We talked a little bit yesterday about the competition
- 2 in the marketplace between Finjan and the Defendants. And
- 3 you stated that it was a tough competition because you were
- 4 competing against, essentially, your own technology when you
- 5 were competing against them?
- 6 A. That's correct.
- 7 Q. Is there any other reason why the competition is tough
- 8 between Finjan and Secure Computing, or the Defendants?
- 9 A. Yes, absolutely. As the attorney from the other side
- 10 mentioned, they are very large companies. They have a lot
- 11 of money. They are spending it in the market to promote
- 12 their own product.
- 13 We are a much smaller company and have very
- 14 limited resources, investing a lot of effort and money to
- 15 develop, to invent and develop and patent it, have an
- 16 agreement with the government. We are trying to sell it
- 17 now, because we have it on our product and we are trying to
- 18 win the account.
- 19 It is very difficult to compete with someone
- 20 that is, to our understanding, using our technology with
- 21 much more resources, and, as they mention, "Finjan killer."
- 22 They confirm it in their opening message, it kills it.
- 23 Basically kills it. That's tough. That's why we are here.
- 24 MR. ANDRE: Thank you. I have no further
- 25 questions, Your Honor.

259

Ben-Itzhak - direct

- 1 THE COURT: Mr. Schutz, you may cross-examine.
- 2 CROSS-EXAMINATION
- 3 BY MR. SCHUTZ:
- 4 Q. Good morning, Mr. Ben-Itzhak.
- 5 A. Good morning.
- 6 Q. You joined Finjan in the fall of 2005. Correct?
- 7 A. That's correct.
- 8 Q. So you just testified that in 2003, that Finjan's
- 9 product had proactive scanning on it. Is that right?
- 10 A. That's right.
- 11 Q. How did you learn that?
- 12 A. From documents and I spoke with people in the company.
- 13 Q. Did you talk to Mr. Touboul about that?
- 14 A. No, I did not speak with Mr. Touboul.
- 15 Q. Why did you --
- 16 THE COURT: Let him answer the question,
- 17 counsel.
- 18 THE WITNESS: I did not speak with Mr. Touboul
- 19 since he is no longer in the company.
- 20 BY MR. SCHUTZ:
- 21 Q. What happened to him?
- 22 A. He left the company before I joined. So, for me, I
- 23 never met him and he never worked in the company when I was
- 24 an employee of Finjan.
- 25 Q. He is the only listed inventor on the '194 patent.

260

Ben-Itzhak - direct

- 1 Correct?
- 2 A. As I remember, that's correct.
- 3 Q. And you never talked to him about the '194 patent. Is
- 4 that correct?
- 5 A. I never talked to him -- Your Honor --
- 6 THE COURT: If you don't understand the
- 7 question, tell the lawyer.
- 8 MR. ANDRE: Your Honor, may I interpose an
- 9 objection? It calls for attorney/client communication. He
- 10 can answer yes or no, but if there is an attorney
- 11 involved...
- 12 THE COURT: Let's see counsel at sidebar.
- 13 (The following took place at sidebar.)
- 14 (Record read.)
- 15 MR. ANDRE: Yes or no is okay. I think what he
- 16 is asking you, if there was a conversation, it may have been
- 17 on the phone with me, introducing him, but if he went into
- 18 substance --
- 19 THE COURT: That is not privileged, if you
- 20 introduced him to the inventor.
- 21 MR. ANDRE: If we talked about the patent.
- 22 THE COURT: Let's see.
- 23 That objection is overruled.
- 24 BY MR. SCHUTZ:
- 25 Q. Mr. Ben-Itzhak, let's start to make sure we are clear.

Ben-Itzhak - direct

1 roll out if they like it, if they want it.

2 Because it is important for us, if they say, We

3 don't need it, or, We already have it, we probably would go

4 back to the board and decide if it is good for us or not.

5 Q. Mr. Ben-Itzhak, do you believe that innovation,

6 especially in this technological area, is a good thing?

7 A. Innovation is good in general in this domain and in

8 all other domains.

9 Q. Do you believe that competition brings out the best

10 products?

11 A. Honest and legitimate competition are helpful to the

12 market. That is what patents are all about. Patents are

13 about, if you invest the time and your mind and effort, and

14 you are willing to share it with the public so the public

15 can take it and benefit from it, it is my understanding, and

16 I am not a lawyer, but it is my understanding that you have

17 a contract with the government that, if you have a

18 monopoly -- maybe there is a better way to say it. On the

19 specific things that you disclose, and you disclose them,

20 the whole idea is you can get protected. If someone is

21 copying what you are doing, you have at least the power to

22 say, Hey, this is not fair competition, and you should stop

23 that.

24 Q. That is exactly right. And I want you to hold that

25 thought --

270

Ben-Itzhak - direct

1 THE COURT: Counsel, I would like to see counsel

2 at sidebar.

3 (The following took place at sidebar.)

4 THE COURT: Mr. Schutz, I am a fair guy and I

5 will give any lawyer a reasonable latitude. But you are

6 exceeding the boundaries.

7 MR. SCHUTZ: Got it, Judge.

8 BY MR. SCHUTZ:

9 Q. As I said, Mr. Ben-Itzhak, we are going to come back

10 to that point in a few minutes. I would like to return now

11 to the marketplace.

12 A. Okay.

13 Q. Do you agree with me that the customers for the

14 products in this space are extremely sophisticated?

15 A. No, I do not agree.

16 Q. You think the customers are unsophisticated?

17 A. I do not agree on that, either.

18 Q. So you think they are somewhere between sophisticated

19 and unsophisticated?

20 A. This is more like -- what I think is there is a mix.

21 You sometimes meet customers that are very sophisticated,

22 and it's very nice to see, to meet these educated people in

23 the domain, of course. Sometimes we meet people that got

24 hit with this type of attacks and they have no idea on

25 security but they are really concerned with their data. And

Ben-Itzhak - direct

1 they ask for a solution.

2 So, they are not sophisticated. It is a mix.

3 Q. Would you agree with me, Mr. Ben-Itzhak, that

4 customers that buy these products will not buy a product if

5 it doesn't work?

6 MR. ANDRE: Objection. Lacks foundation.

7 THE COURT: I will let you answer that, go

8 ahead. But we need to wrap this up, counsel.

9 You can answer.

10 THE WITNESS: Okay. I never met a customer that

11 was willing to pay and use a product that doesn't work for a

12 long time. Probably he will get the product, test it. If

13 it is broken, he will return it back and ask for the money

14 that was -- that is what I would do and recommend everyone

15 to do. It seems we have so many customers and we are

16 selling for quite some time and they didn't return the

17 product.

18 BY MR. SCHUTZ:

19 Q. Mr. Ben-Itzhak, Finjan has never made money in its

20 entire existence. Is that correct?

21 A. This is completely wrong.

22 Q. Are you testifying that Finjan has been profitable in

23 any single year since its existence?

24 A. This is not your previous question. You asked me if

25 we made money. We are selling, we get money. If we are

272

Ben-Itzhak - direct

1 profitable, it is a completely different question.

2 Q. I am sorry if my question was unclear. Finjan has

3 never been profitable in any year in its existence.

4 Correct?

5 A. I am not the CFO of the company. I can testify that

6 this philosophy, we are not profitable. So I didn't review

7 all the years you mentioned in your opening statement,

8 numbers, I don't know if they are accurate or not. But I

9 trust you, you are a lawyer in court, you are probably

10 saying the truth.

11 I cannot comment on that. In all the years, I

12 can speak about the years that I am familiar with. And

13 profitability in the business doesn't indicate if your

14 product is successful or not, because you may lose money in

15 the market, and Secure had bad quarters as well. We know,

16 it is a public company, they publish that.

17 So you may lose money because maybe a bad

18 management decision or decided to open a fancy office

19 somewhere and you spend a lot of money. It has nothing to

20 do with if you are selling a product or not. It is

21 management decisions.

22 Q. The fact remains, in every year of Finjan's existence,

23 it has failed to make a profit. Correct?

24 A. As I said before, I cannot testify to that. I am not

25 the CFO and I don't have the financial report in front of me

Ben-Itzhak - direct

Ben-Itzhak - direct

1 right now.

2 Q. Since you have joined --

3 THE COURT: He has answered the question,

4 counsel.

5 BY MR. SCHUTZ:

6 Q. Mr. Ben-Itzhak, I am going to put up on the screen

7 here a memo. I think that you looked at this yesterday. I

8 just want to confirm that you, in fact, are the author of

9 this document. Correct?

10 A. Yes. This is correct.

11 Q. Who is Marc?

12 A. I mentioned that on my deposition with your colleague.

13 He is an attorney as well, patent attorney. I asked to

14 remove this sentence. It is not very critical. I am not

15 disclosing anything here. But he is a patent attorney that

16 we work with. This communication was with Marc Berger.

17 That is his full name.

18 Q. I am not going to ask you to say --

19 A. Sure.

20 Q. -- anything Mr. Berger sent to you?

21 A. He is a lawyer and I disclosed that in my deposition.

22 Q. In any event, you, in fact, are the author of this

23 document. Correct?

24 A. I wrote the original form. This is a restricted form

25 of the document.

Ben-Itzhak - direct

Ben-Itzhak - direct

1 Q. Mr. Ben-Itzhak, I have now put up here a document that

2 bears the title, "Finjan Webwasher Competitive Analysis."

3 It's DTX-1071. The previous document I showed you was

4 DTX-1160.

5 I now have on the screen DTX-1071. That is an

6 April 2006 document authored by Finjan. Correct?

7 A. That's what I see here, yes.

8 Q. Mr. Ben-Itzhak, do you believe that, prior to the year

9 2000, that Finjan had used the term "behavior-based

10 analysis"?

11 MR. ANDRE: Objection. Lacks foundation.

12 THE COURT: I am sorry. Could you repeat the

13 question, please?

14 BY MR. SCHUTZ:

15 Q. Do you believe that Finjan used the term

16 "behavior-based analysis" before the year 2000?

17 THE COURT: Maybe you could establish some

18 foundation.

19 BY MR. SCHUTZ:

20 Q. Mr. Ben-Itzhak, you have previously testified about

21 events at the company before you joined the company. Right?

22 A. About what? Sorry.

23 Q. You have previously testified about events at the

24 company and some company history prior to the time when you

25 actually joined the company. Right?

1 A. Yes.

2 Q. And you have studied, at least to some level, some

3 history of the company. Correct?

4 A. That's correct.

5 Q. And you knew about a SurfinGate product which was in

6 existence before you joined the company. Correct?

7 A. That's correct.

8 Q. And, so, my question, sir, is: Prior to the year

9 2000, do you believe that Finjan used the term

10 "behavior-based analysis"?

11 A. I believe the company used this term, since I found it

12 in several documents. So that's what I believe.

13 Q. Prior to 2000. Correct?

14 A. Probably, yes.

15 Q. Now, do you have a familiarity with the patents that

16 Finjan is asserting in this case?

17 A. I am not a patent lawyer. So I can read them.

18 Q. Well, have you read them?

19 A. I read the patent, not as an attorney.

20 Q. Do you understand that -- you testified earlier, in

21 fact, in response to I think some of my questions about the

22 patent gives you protection. Right?

23 A. What's the question, please?

24 Q. You understand that a patent can give a company like

25 Finjan some protection. Right?

1 A. To my understanding, the patent law in the U.S. and

2 the whole idea of patents is that you have an agreement with

3 the government where you disclose the invention that you do,

4 and if the government reviews that by the Patent Office,

5 that was the video that we saw at the beginning, and they

6 check whatever they need to check -- I don't know the exact

7 procedure -- if they think this is a good invention, they

8 give you the patent and you get a number.

9 And as a result of it, you disclose it, then you

10 get protection from the government for that invention.

11 Q. So if you disclose it, if you disclose it and you

12 understand that the rules require that --

13 THE COURT: Is there an objection?

14 MR. ANDRE: Yes, Your Honor. We are getting

15 into legal --

16 THE COURT: Sustained.

17 BY MR. SCHUTZ:

18 Q. In any event, you have looked at the patents.

19 Correct?

20 A. I have looked at the patents, that's right.

21 Q. And do you know why Finjan never put in the patents or

22 the claims the term "behavior" or "behavior-based"?

23 MR. ANDRE: Objection, Your Honor.

24 THE COURT: Sustained.

25 MR. SCHUTZ: No further questions, Judge.



Ben-Itzhak - direct

Ben-Itzhak - direct

THE COURT: Any redirect?

REDIRECT EXAMINATION

BY MR. ANDRE:

Q. I just want to clear up the record. I believe both you and counsel stated that the patent was filed in 2006, the application. Was that in 1996, in reality?

A. Probably, yes.

Q. Now, counsel showed you a table on PTX-23. If we can go to PTX-23, I think it's on Page 4A of that document. If you look at the very top of that table, it says, "Worldwide Anti-Virus Software Revenues By Vendor, 2001 and 2002," in millions of dollars.

Mr. Ben-Itzhak, what is your understanding of what is meant by "worldwide anti-virus software revenues"?

A. It means that, this is the size of the anti-virus software market between the year 2001, 2002, in million dollars. It means how much companies or vendors are selling in this market during these years.

Q. These vendors, like Symantech, we are talking about traditional anti-virus signature-based detection?

A. Yes, that's correct, it is the reactive technology, is signature-based technology that we mentioned, yes.

Q. When this report came out, the traditional based, the signature-based technology was still the most popular type of technology in the marketplace. Correct?

Q. Let's go back though that table very quickly. On that table, you see Finjan sales of \$6 million, and you don't see Webwasher on this table, do you?

A. I don't see Webwasher on this table.

Q. Now let's go to PTX-25. This is Page 10 of the report. It has a very similar table. If you go down to the number five on that list, you will see Webwasher.

You see their sales of 12.5 million and 15.4 million?

A. Yes, I do see Webwasher and the number, yes.

Q. If you go below that, you will see, "Fijian Software." You will see 9.3 million up to 12.9?

A. Yes, I do see these numbers here.

Q. If you look at the top of this table, this is the 2003-2004 revenues. Correct?

A. Yes, that's correct.

Q. So, from 2001-2002, you went from six million and change to nine million, to \$12 million in sales, according to IDC. Correct?

A. According to IDC, this is correct.

Q. And in that same time period, Webwasher went from not being on the table at all to suddenly coming on the table. Right?

A. Yes, according to these two tables that we just reviewed.

278

Ben-Itzhak - direct

A. Yes, absolutely. This is correct.

Q. Just looking at Finjan's sales for the 2001-2002 time period, it's roughly about \$6 million and change. Is that correct?

A. Well, I don't know. I don't have the financial report in front of me.

Q. According to the IDC?

A. According to the IDC, these are the numbers, yes.

Q. I am just going to show you the same table in the IDC report marked PTX-25. You don't have that with you. We will just pull it up.

MR. SCHUTZ: Sidebar on this, Judge. 25.

(The following took place at sidebar.)

THE COURT: This is PTX-25?

MR. ANDRE: This is 23 here that we have marked with this witness and showed this table. I used it to show their sales were very slow. This is two years later. It shows their sales have increased in '97. It is the exact same table.

MR. SCHUTZ: I need to make sure I interpose an objection to Exhibit 25 as hearsay.

THE COURT: You have already objected and you could have done that in open court, counsel. That objection is well-preserved, Mr. Schutz. That is overruled.

BY MR. ANDRE:

280

Ben-Itzhak - direct

Q. Counsel also showed you Exhibit DTX-1071. And he showed this document in his opening statement as well. You may recall it. If you turn to the second page of this document --

A. It's in the binder?

Q. No, I am sorry. We will look at it on the screen, if you don't mind.

A. Okay.

Q. The fourth paragraph down, it states, "In respect to behavior analysis of binary codes," it says, "Webwasher's content protection, inspection, the code import table, it doesn't block malicious operations such as read, write and network access."

Do you see that?

A. Yes, I do see that.

Q. This is a Finjan paper. Correct?

A. It is a Finjan paper, correct.

Q. What are binary codes?

A. On the Internet, you may find different kinds of content. As I mentioned yesterday, you may find videos and files and scripts, Java applets, and also binaries. If you want to install, let's say, a program, you download it with 32 binary if you have a Windows operating system. Binary is just one file type.

If you remember the diagram I explained

Ben-Itzhak - direct

Ben-Itzhak - direct

1 yesterday, that we check what is the file type being  
 2 downloaded. So binary is one out of many file types that  
 3 you can get from the Internet.  
 4 Q. And how is it different than any other type of content  
 5 that is on the Internet?  
 6 A. Scripts, for example, it's a different content. You  
 7 still have the source code or the instructions of the  
 8 program, the binary. It just looks different. It is a set  
 9 of ones and zeros that already, is already the program code.  
 10 You don't have the source code. Sorry for the technical  
 11 terms here. But it's just the different things.  
 12 At the end of the day, both of them are trying  
 13 to do some operations, like read files and add or delete  
 14 files. But it's doing it just in a different -- it's a  
 15 different method, and the web today includes both, or at  
 16 least both.  
 17 Q. In this report, you are saying that the Webwasher  
 18 product doesn't block binary code in this way, but you are  
 19 not saying anything about the other code out there?  
 20 A. First of all, I didn't write this document, of course.  
 21 This was reading by others and a not under my control. But  
 22 we are not saying that Webwasher doesn't block scripts or  
 23 applets or all the other type of contents that I mentioned.  
 24 I would just see here the underlined line, and I  
 25 disagree is, because just recently, actually, last Saturday,

1 THE COURT: To then interpose an additional  
 2 objection, when Mr. Andre, in the interests of completeness,  
 3 at the very least, brings it up, seems to me to be a -- the  
 4 other portions of the grid, seems to me to be a bit  
 5 disingenuous on your part.  
 6 MR. SCHUTZ: Not intentional, Judge. I wanted  
 7 to make sure I preserved the record on hearsay.  
 8 THE COURT: Let me give you some guidance on how  
 9 I judge. You have made that argument. If you continue to  
 10 beat me up with arguments, I am going to start beating you  
 11 up and I am going to win that fight.  
 12 MR. SCHUTZ: I understand that, Judge. It  
 13 wasn't my intent. I don't want some appellate lawyer coming  
 14 back saying I waived my objection.  
 15 THE COURT: There is no way they can ever argue  
 16 waiver on this. Given the way I have watched you lawyer,  
 17 very carefully and meticulously, that is not going to  
 18 happen.  
 19 MR. ROVNER: Your Honor, now that he has  
 20 introduced that, he qualified it as this is what he  
 21 believed, he can put it in for its truth. I think this  
 22 document gets in for its truth, because he opened the door.  
 23 THE COURT: Unfortunately, I think you are  
 24 right. I agree.  
 25 DAVID KROLL, having been duly

282

Ben-Itzhak - direct

Kroll - direct

1 I personally checked the Webwasher appliance that is sitting  
 2 here, and I found it blocking binary code using samples on  
 3 Secure Computing's websites that they provide as a sample.  
 4 So, again, I didn't write this document, but  
 5 from very recent experience, they do block binaries coming  
 6 from the web.  
 7 Q. This does not say that Webwasher was not doing  
 8 behavior protection on Java applets or scripts or that type  
 9 of code. Right?  
 10 A. I did not see these words here.  
 11 MR. ANDRE: Thank you. I have no further  
 12 questions.  
 13 THE COURT: You are excused.  
 14 (Witness excused.)  
 15 MS. KOBIALKA: Finjan would like to call David  
 16 Croll.  
 17 THE COURT: Let me see counsel at sidebar.  
 18 (The following took place at sidebar.)  
 19 THE COURT: I just want to point out, as to your  
 20 last objection, Mr. Schutz, if memory serves me correctly,  
 21 and maybe it doesn't, Mr. Andre will correct me, both of you  
 22 will, the reference of the witness' attention and the jury's  
 23 attention to the market share going up, wasn't made until  
 24 your cross-examination. Am I correct?  
 25 MR. SCHUTZ: I think that's correct, Judge.

284

1 sworn as a witness, was examined and testified as follows:  
 2 DIRECT EXAMINATION  
 3 BY MS. KOBIALKA:  
 4 Q. Good morning, Mr. Kroll.  
 5 A. Good morning.  
 6 Q. Were you ever employed by Finjan?  
 7 A. Yes.  
 8 Q. What was that time frame?  
 9 A. Early 1999 through April 2002.  
 10 Q. So you don't work there any longer. Right?  
 11 A. That's correct.  
 12 Q. Where do you currently work?  
 13 A. I work at Advanced Micro Devices, AMD.  
 14 Q. What is your position there?  
 15 A. I am director of employee communications.  
 16 Q. How would you describe your industry experience?  
 17 A. I worked in high-tech marketing and communications.  
 18 Q. Could you just briefly describe your educational  
 19 background?  
 20 A. Sure. I attended Kansas State University with a  
 21 degree in speech communication and marketing.  
 22 Q. When did you obtain that degree?  
 23 A. 1989.  
 24 Q. Do you have any kind of engineering background?  
 25 A. I do not.

Kroll - direct

Kroll - direct

1 Q. You don't write source code or anything like that?

2 A. No.

3 Q. While you were at Finjan, turning back to that time,

4 what was your job title there?

5 A. I was hired as a director of corporate communications.

6 Q. That was in the 1999 time frame?

7 A. Correct.

8 Q. Later, did you hold another job title while you were

9 at Finjan?

10 A. Yes. I was eventually promoted to the vice president

11 of marketing in 2001.

12 Q. What were your job responsibilities while you were at

13 Finjan?

14 A. Several areas. I have worked a lot with our product

15 management and R&D teams in Israel. So it would be on early

16 morning sessions, going over product builds and feature

17 reviews. Then also with the sales force to help the sales

18 team sell. So how to communicate the features and benefits

19 of Finjan products out to customers.

20 And on the marketing side, oversaw the marketing

21 collateral, the press releases, the website, trade shows,

22 events, all the ways we communicated to the outside world.

23 Q. While you were at Finjan, were you ever involved with

24 any patents?

25 A. I wrote a press release whenever we would receive a

1 patent of Finjan that you are aware of?

2 A. Yes. It was an extension or add-on to our original

3 SurfinGate patent or gateway patent.

4 Q. Do you recall what the number was of that patent that

5 you are referring to?

6 A. I don't, offhand.

7 Q. But your original patent -- why don't you take a look

8 at JTX-1 in your book, see if that helps you remember the

9 number.

10 A. Yes, I see GTX-3 and GTX-1.

11 Q. Is this the original patent you were just referring

12 to, if you remember?

13 A. Yes, it is, yes.

14 Q. I will refer to that as the "'194 patent."

15 Generally, are you familiar with this '194

16 patent?

17 A. Yes. When we wrote up, this is the Portable Sandbox

18 Patent, it was based on the original technology from this

19 patent.

20 Q. Did you ever write a press release when this patent

21 was issued to Finjan?

22 A. Yes.

23 Q. Okay. Why did you write a press release about it?

24 A. Well, it's a big deal to get a patent. And it was our

25 original core technology for Finjan. So we wanted to

286

Kroll - direct

1 patent. And I was the inventor on one patent.

2 Q. I would like to show you what is marked as Exhibit

3 JTX-3.

4 I believe it may be in that binder there in

5 front of you.

6 A. Okay.

7 Q. Once you have had a chance to look at it, let me know

8 if you recognize the document.

9 A. Yes, I do.

10 Q. What is your understanding of what this document is?

11 A. This was what we called our patent that covered the

12 technology for sandbox technology that was intended for our

13 gateway product.

14 Q. Are you a named inventor on this patent?

15 A. Yes.

16 Q. What did you refer to this patent as at Finjan while

17 you were there?

18 A. We call it the "Portable Sandbox Patent."

19 Q. Just for reference, do you see the last three numbers,

20 it says "'822" on the patent?

21 A. Yes, I do.

22 Q. If we refer to it as "'822" or the "Portable Sandbox

23 Patent," we will be talking about the same thing. Right?

24 A. Yes, okay.

25 Q. Is this patent, the '822 patent, related to any other

288

Kroll - direct

1 promote that as a leader in the space for proactive

2 monitoring and behavior-based monitoring for code, that we

3 were the inventors of this patent, and it would demonstrate

4 our leadership to market.

5 Q. I would like to show you what's DTX-1149. I believe

6 it's in the book there, too, for you as well.

7 Do you recognize this document?

8 A. Yes.

9 Q. Is this the press release you were just referring to

10 about the '194 patent?

11 A. Yes, it is.

12 Q. About what time frame was this press release done?

13 A. It looks like July 2000.

14 Q. How did you describe the '194 patent technology?

15 A. Probably the second paragraph has it best. "The

16 patent covers methods for receiving a downloadable program,

17 such as ActiveX or JavaScript, scanning the code in

18 realtime, applying a security policy to the downloaded

19 program, and then blocking the program if the security

20 policy has been violated. For example, attempting to delete

21 a file on a recipient's PC."

22 The patent also covers the scanning of digital

23 certificates, which are used to validate the identity and

24 origin of downloaded active code, such as ActiveX controls.

25 Q. Why was this technology significant to Finjan?

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1 A. Well, we were first to market it. If you go back into  
2 time, the web was just coming out in 1995-1996. Finjan was  
3 probably the very first company to recognize the dangers of  
4 downloadable code from the Internet. It was such a new  
5 thing. So they were quite visionary and pioneered the first  
6 products that would monitor code in realtime and look at  
7 code behavior, instead of reactive products. So they were  
8 computing times.

9 Q. When you use the word "reacted," could you just  
10 briefly explain what you mean?

11 A. Well, the current products on the market were  
12 anti-virus companies, Norton, Symantech, et cetera, are the  
13 ones that are still around today. Their technology is based  
14 on signatures and comparing lists of known viruses that are  
15 already out there.

16 So if your computer can recognize an incoming  
17 file that is malicious, it can block it. Any new or  
18 first-time attacks that come out, they are not on those  
19 lists. Products such as what we had at Finjan to properly  
20 monitor the behavior of that code was a significant leap  
21 forward at that time.

22 Q. While you were at Finjan, was Finjan successful in  
23 marketing this technology?

24 A. I wish. It, actually, out of the gates, we were very  
25 successful, and with the threats that were out there, but

1 We came up and fleshed out the idea for the Portable  
2 Sandbox.

3 Q. You had discussions with specific people at Finjan.  
4 Is that correct?

5 A. Yes. It was mainly Nimrod Vered and Yigal Edery, who  
6 are listed on the patent.

7 Q. Those are the other inventors?

8 A. They are.

9 Q. How often did you talk to them?

10 A. Sometimes daily, but we always had weekly calls. So  
11 it was very active discussions. Through the course of my  
12 tenure at Finjan, we talked to those guys all the time.

13 Q. You have used the term "Portable Sandbox." What do  
14 you mean by that?

15 A. Well, essentially, wrapping a code at the gateway. So  
16 a program comes in, let's say, through the Internet, and the  
17 gateway server, we can wrap a piece of code around it and  
18 bring it down to the desktop and have it run and monitor the  
19 code and block any policies that it violates, such as  
20 attempting to delete a file or install a malicious program.

21 All that is done without installing anything on  
22 the client.

23 Q. Is it important that nothing is installed on the  
24 client for your customers at that time at Finjan?

25 A. Yes. It is actually a huge deal. If you can imagine

290

Kroll - direct

1 the number of attacks didn't quite proliferate as people had  
2 expected. So the web was growing leaps and bounds, and  
3 hackers were developing worms and other types of programs  
4 that would take advantage of these technologies.

5 But there weren't quite the number that we  
6 anticipated. I think Finjan was way too early to market, as  
7 sometimes technology companies can be very visionary but a  
8 little too early to market. So the market demand didn't  
9 quite carry through and turn into the sales we hoped for.

10 Q. Did the dotcom bust help?

11 A. No. We actually, in 2001, it was probably one of  
12 worst days of my professional carrier. We had to lay off 50  
13 percent of the company with no severance. So the year  
14 prior, we had spent balancing incoming cash from customers,  
15 vendors, pay vendors, pay suppliers, and we finally hit a  
16 wall. It was a horrible day. That was in 2001.

17 Q. Turning back to the '822 patent that you are an  
18 inventor on. Generally, how did the idea come about? What  
19 was your involvement?

20 A. Well, representing the customers' side, we knew a lot  
21 of the features and weaknesses of a product. We had a very  
22 strong desktop product, SurfinShield. Our sandbox product  
23 is, SurfinGate, had some weaknesses, that we knew customers  
24 wanted, and I wanted those features in the product. So  
25 there was a lot of discussion with product management, R&D.

292

Kroll - direct

1 an IT person at a company with five, ten, 20,000 computers,  
2 and to not have to install software on each desktop and be  
3 able to cover that gateway is a huge deployment and  
4 efficiency advantage for the company.

5 Q. So they can just install it once on the gateway as  
6 opposed to many, many computers?

7 A. Yes, absolutely.

8 Q. You said, "It acts like a wrapper." What exactly do  
9 you mean?

10 A. Well, it actually attaches a piece of code around the  
11 program. So if a program comes in and it is determined that  
12 it needs to be wrapped, you actually attach a piece of code,  
13 which is the sandbox, and a sandbox, all that is is like a  
14 safe zone. When the program actually runs on the desktop's  
15 computer, then it can monitor the behavior inside that safe  
16 zone and protect it.

17 Q. Why is it difficult to detect whether some code may be  
18 malicious at the gateway?

19 A. Code isn't run at the gateway. So when you are  
20 downloading something from the Internet, your web browser,  
21 when it hits your company's server, it passes through that  
22 to your desktop. At the time it is running through your  
23 gateway server, it cannot run itself. The code actually has  
24 to be executing. So the best and the only time to see what  
25 is going on is when it is executing and unveiling its true



Kroll - direct

Kroll - direct

1 intentions on the client computer.

2 MS. KOBIALKA: I have no further questions at  
3 this time. Thank you.

4 CROSS-EXAMINATION

5 MR. HOLDREITH: Good morning, Your Honor.

6 THE COURT: Good morning.

7 CROSS-EXAMINATION

8 BY MR. HOLDREITH:

9 Q. Good morning, Mr. Kroll.

10 A. Good morning.

11 Q. Now, you were, as you testified, primarily involved in  
12 marketing and advertising. Is that fair to say?

13 A. That would be the primary function of my job, yes.

14 Q. And as you mentioned in your testimony, you don't have  
15 particular training or experience as a designer of code or  
16 network security products?

17 A. That's correct.

18 Q. And, in fact, you are not the originator of the idea  
19 for the '822 patent. Is that fair to say?

20 A. Well, I contributed to the concept, so I would say  
21 Yigal Edery, in many of our discussions of trying to get  
22 that sandboxing technology that we had at the desktop up to  
23 the server product, there was a lot of discussion about  
24 that. The first spark probably came from Yigal, and we all  
25 helped flesh out the idea and the general concept of it.

1 A. Yes.

2 Q. And then there is some text that describes what you  
3 thought your idea was. Right?

4 A. Yes.

5 Q. And you helped edit this text, some of this text in  
6 the '822 patent?

7 A. In the application.

8 Q. That's right. And you understand that this patent is  
9 the text from the application?

10 A. Most of it, yes.

11 Q. And, so, you went through this text when you were  
12 working on the patent?

13 A. You know, I am not even sure if I saw the final  
14 patent. Our patent attorneys did much of that. I am very  
15 involved in the writing of the application and the details  
16 around that, yes.

17 Q. Exactly. One of the things you said here in the  
18 specification of this patent is that there was somebody  
19 named Golan, who -- you understand Golan came before the  
20 '822 patent. You were talking about the prior art here.  
21 Correct?

22 A. Yes.

23 Q. And Golan had a protection system that focused only on  
24 protecting against ActiveX controls. That's what you said  
25 here.

294

Kroll - direct

1 Q. Fair enough.

2 And, now, your role with respect to the patent  
3 was generally to aid in the editing process but not the  
4 technical details. Is that fair to say?

5 A. Yes.

6 Q. Now, I would like to look at that patent again.  
7 That's JX-3. Here is the cover page up on the screen. This  
8 is the patent that you were talking about that names you as  
9 an inventor. Is that right?

10 A. Yes.

11 Q. If we look at this abstract, it explains that one of  
12 the things you wanted to do with this idea was to protect  
13 against malicious operations of Java applets, ActiveX  
14 controls, JavaScript scripts, Visual Basic scripts, add-ins,  
15 downloaded/uploaded programs or other downloadables.

16 That is what the patent says. Is that right?

17 A. Yes.

18 Q. And is it fair to say one of the things you wanted was  
19 a solution that could address all of these threats, Java  
20 applets, ActiveX, scripts, add-ins, downloadables?

21 A. Or mobile code.

22 Q. You wanted to catch it all if you could?

23 A. Sure.

24 Q. In your patent, I am going to refer you now to Column  
25 110. You understand there is some drawings in the patent?

296

Kroll - direct

1 A. Yes.

2 Q. And you said, Golan doesn't protect against other  
3 distributable components, let alone other downloadable  
4 types. Right?

5 A. Yes.

6 Q. And other distributable components, that means things  
7 like Java applets?

8 MS. KOBIALKA: Objection, Your Honor.

9 THE COURT: May I see counsel, please.

10 (The following took place at sidebar.)

11 MS. KOBIALKA: I am afraid we are starting to go  
12 down a path of trying to make legal conclusions and  
13 interpreting the patent. He has already said he is not an  
14 engineer.

15 THE COURT: I agree. What is the purpose of  
16 this line of questioning?

17 MR. HOLDREITH: He said he edited this text.

18 THE COURT: He is not a lawyer. Sustained.

19 (End of sidebar conference.)

20 THE COURT: The objection is sustained.

21 BY MR. HOLDREITH:

22 Q. Mr. Kroll, I would like to ask about the press release  
23 you were asked about. It is DTX-1149.

24 Is it fair to say this was not intended for  
25 patent lawyers but intended for a more general audience?

Kroll - direct

Kroll - redirect

- 1 A. Yes.
- 2 Q. The press release is not an effort to explain what the
- 3 exact boundaries of the patent are, was it?
- 4 A. That's correct.
- 5 Q. The press release includes some language that promotes
- 6 Finjan's products at the time, about SurfinGate. Do you see
- 7 that?
- 8 A. Yes.
- 9 Q. Would you agree with me that the SurfinGate product
- 10 evolved over time?
- 11 A. Yes.
- 12 Q. One of the things you wanted to do was update the
- 13 product to meet new threats?
- 14 A. Sure.
- 15 Q. And you did that?
- 16 A. Yes.
- 17 Q. So the SurfinGate product in 2000 was different from
- 18 the SurfinGate product in, say, 1997?
- 19 A. Yes, there would be different features.
- 20 Q. You mentioned that SurfinGate had weaknesses. Is that
- 21 right?
- 22 A. Yes.
- 23 Q. Was the '822 patent an effort to address some of those
- 24 weaknesses?
- 25 A. Yes.

- 1 Q. Do you have an understanding, based on what you can
- 2 recall about this patent, that every time there is a
- 3 downloadable, it needed to be sandboxed?
- 4 A. Every time?
- 5 Q. Yes.
- 6 A. No.
- 7 Q. Why wouldn't you do that?
- 8 A. Well, the products work based on policies. So there
- 9 is plenty of good downloadables from the web, whether it be
- 10 a ticker, a little clock, something you may want to download
- 11 or an application you want to install that you wouldn't
- 12 sandbox, because that would be an okay application to run on
- 13 your computer.
- 14 So the products were built to have policies to
- 15 allow certain types to be allowed into a network and then
- 16 others would be blocked.
- 17 Q. You were asked questions about how software at Finjan
- 18 had evolved over time?
- 19 A. Yes.
- 20 Q. Do you have an understanding of why the products were
- 21 evolving over time?
- 22 A. Yes. Absolutely. When you develop products, you
- 23 start with a certain idea in mind and what you are trying to
- 24 achieve and deliver for customers, then you get feedback
- 25 from the industry, the market, there may be new threats that

298

Kroll - redirect

- 1 Q. Were some of the weaknesses that it couldn't catch all
- 2 of the different downloadables that came in, sir?
- 3 A. Correct.
- 4 Q. And some of those were like Java applets. That was a
- 5 weakness you were trying to address?
- 6 A. It, actually, the SurfinGate product at that time did
- 7 monitor Java applets, while we had issues with attachments
- 8 to e-mails and other pieces.
- 9 Q. Other types of components?
- 10 A. Yeah.
- 11 MR. HOLDREITH: Thank you. That is all I have.
- 12 THE COURT: Redirect.
- 13 MS. KOBIALKA: Yes, please.
- 14 REDIRECT EXAMINATION
- 15 BY MS. KOBIALKA:
- 16 Q. I would like you to take a look at DTX-3. There was
- 17 some text that was shown to you from the abstract. We
- 18 actually didn't get to see the whole sentence. I would like
- 19 to highlight that, starting from "Java applets, ActiveX,"
- 20 all the way to the end of the sentence, do you see at the
- 21 end of the sentence, it says, "Visual Basic scripts,
- 22 add-ins, downloaded/uploaded programs, or other
- 23 downloadables or mobile code in whole or part."
- 24 Do you see that?
- 25 A. Yes, I do.

300

Kroll - redirect

- 1 occur. You build those into the products as the days and
- 2 the years go by.
- 3 Q. Was that one of your job responsibilities in terms of
- 4 addressing customer comments about the products?
- 5 A. Yes. That was one of the main pipelines into our
- 6 Israeli design team on what new features and input needed to
- 7 be included in the products to improve them.
- 8 Q. Is that one of the reasons why you were involved on
- 9 these calls with the Israeli R&D team you mentioned?
- 10 A. Absolutely.
- 11 MS. KOBIALKA: Thank you. I have no further
- 12 questions.
- 13 THE COURT: Thank you, sir. You are excused.
- 14 (Witness excused.)
- 15 MR. ANDRE: Your Honor, at this point, we would
- 16 like to read in some deposition transcripts. We would like
- 17 to have two of our attorneys read it in, if that's okay.
- 18 THE COURT: Ladies and gentlemen, this is an
- 19 example of the other kind of evidence that you will get from
- 20 time to time, evidence or testimony that was previously
- 21 recorded. This testimony was recorded in writing. And we
- 22 will have someone who will play the witness and someone who
- 23 will play the examiner.
- 24 This is testimony from previously-taken
- 25 depositions.

Kroll - redirect

Kroll - redirect

1 MR. ANDRE: Your Honor, for the record, the  
2 person reading the answers will be Mr. Hannah and the person  
3 reading the questions will be Mr. Kastens:  
4 "Question: Please state your full name and  
5 spell your last name for the record.  
6 "Answer: Christoph Norbert Alme. Surname is  
7 A-l-m-e.  
8 "Question: Are you currently employed,  
9 Mr. Alme?  
10 "Answer: Yes.  
11 "Question: Where are you employed?  
12 "Answer: With Secure Computing GmbH.  
13 "Question: And what is your current title  
14 there?  
15 "Answer: At the moment, I am principal engineer  
16 and team lead.  
17 "Question: Thank you. Let's turn to page  
18 bearing Bates No. SC 03462, (PTX-9 or PTX-9A). What does  
19 this slide show?  
20 "Answer: You can see a debug file of the  
21 Webwasher.  
22 "Question: Can you walk me step by step and  
23 tell me what each of these lines is referring to, please?  
24 "Answer: The first line refers to the calling  
25 of the mobile code filter. The second line states the URL

1 "In Line 13, it says that an error handler was  
2 added. In Line 14, mitigation script code for JavaScript  
3 was added. Line 15 says that proactive scanning has  
4 finished filtering embedded script code. And Line 16 states  
5 that the transaction has been completed.  
6 "Question: Is this an accurate depiction of the  
7 proactive scanner?  
8 "Answer: Definitely not. This is just a debug  
9 log file.  
10 "Question: Is this an accurate depiction of the  
11 steps that the proactive scanner takes?  
12 "Answer: The flow of processes, the steps --  
13 the sequence of steps is correct, but lines only show up in  
14 a log file if that action has been called in the proactive  
15 scanner. So what you can see here has been performed in  
16 that sequence, but this does, by no means, claim  
17 completeness.  
18 "Question: So these are all the steps that  
19 would be performed on the JSENC .HTML web page; is that  
20 correct?  
21 "Answer: These are all the steps that are  
22 performed but they aren't all the steps that have been  
23 performed.  
24 "THE WITNESS: Maybe not all steps.  
25 "Question: But at least these steps were

302

Kroll - redirect

Kroll - redirect

1 from which the content has been received. The third line  
2 states that the proactive scanning has started to filter  
3 embedded script code.  
4 "Can I put line numbers on this?  
5 "Question: Sure. Go ahead.  
6 "Answer: Otherwise, I get confused. Line 5  
7 shows the URL. Line 6 shows the proactive scanning has  
8 started. Line 7 says that a function named ActiveXObject  
9 has been found; and due to Rule No. 435 and respectively to  
10 this function code, the bit flag for the category  
11 CoadLoading was set.  
12 "The next line is the current context of the  
13 parameter. And that line says that the current context  
14 consisting in the function -- in the last function names of  
15 parameters has set the bit flags for FileRead and FileWrite  
16 due to 446.  
17 "In Line 9, it states that we have found the  
18 function name 'CreateTextFile,' and the bit flag for the  
19 category FileWrite was set due to rule 450. In Line ten, we  
20 have the current context of the last function name in  
21 parameters; and due to Rule 523, the bit flag for the  
22 category 'Vulnerable' was set.  
23 "In Line 11, you can see that proactive  
24 scanning has finished and that content is to be blocked; and  
25 for that reason, proactive scanning throws an exception.

1 performed?  
2 "Answer: These steps were performed, yes.  
3 "Question: Five lines from the bottom, it says  
4 'mobile code blocked.'  
5 "Do you see that?  
6 "Answer: That one and the line before belong in  
7 one line.  
8 "THE WITNESS: It's a character term.  
9 "(Exhibit 5 marked.) (PTK-10.)  
10 "MR. HANNAH: For the record, Exhibit 5 bears  
11 Bates number SC 01360 through SC 01386 (PTX-10). It is  
12 entitled 'Webwasher Mobile Code Filter, Detection and  
13 Classification of Malicious Mobile Code.' And on the cover,  
14 the author is Christoph Alme and the date is July 5, 2004.  
15 "Do you recognize this document, Mr. Alme?  
16 "Answer: Yes, I do recognize it.  
17 "Question: Did you write this document?  
18 "Answer: Yes.  
19 "Question: Did anybody else help you write this  
20 document?  
21 "Answer: What do you mean by 'help'?  
22 "Question: Did anybody else author this  
23 document?  
24 "Answer: No.  
25 "Question: What is this document?

304

Kroll - redirect

Kroll - redirect

1 "Answer: It's a document that was written  
2 during the development of the mobile code filter. It was  
3 meant to be a basis. It was a basis for marketing to use it  
4 to write, for instance, a white paper.  
5 "Question: Does this paper describe the  
6 proactive scanner that be we have been talking about this  
7 morning?  
8 "Answer: Yes.  
9 "Question: How did you come up with the idea  
10 for the proactive scanner?  
11 "Answer: Not at all.  
12 "Question: What do you mean?  
13 "Answer: It wasn't my idea.  
14 "Question: Whose idea was it?  
15 "Answer: I don't really know. I am a  
16 developer. I got a task to perform something.  
17 "Question: Who gave you the task?  
18 "Answer: At the end of the day, obviously my  
19 direct bosses, Peter Borgolte and Mr. Stecher.  
20 "Question: Do you know how they came up with  
21 the idea for proactive filter?  
22 "Answer: I do not know that, no.  
23 "Question: Did you look at any other products  
24 when you were developing the proactive filter?  
25 "Answer: No.

306

Kroll - redirect

1 "Question: Have you ever reviewed Finjan's  
2 products while you were working for Secure Computing?  
3 "Answer: I reviewed them within the period  
4 covering both Webwasher and to Secure Computing.  
5 "Question: When did you review Finjan's  
6 products?  
7 "Answer: In spring/summer 2003.  
8 "Question: Why did you review Finjan's  
9 products?  
10 "Answer: Because these orders were given to me  
11 by my boss.  
12 "Question: Did you ever review Finjan's  
13 products in your development of the proactive scanner?  
14 "Answer: I reviewed screen shots but I did not  
15 review the product itself. I was shown screen shots. I was  
16 shown screen shots."  
17 MR. ANDRE: Your Honor, that ends the deposition  
18 of Mr. Alme. The next deposition we will be reading is of  
19 Mr. Stecher, another employee of the Defendants.  
20 THE COURT: That is fine.  
21 "Question: Can you please state your full name  
22 and spell your last name for the record.  
23 "Answer: My name is Martin Stecher,  
24 S-t-e-c-h-e-r.  
25 "Question: Are you currently employed,

1 Mr. Stecher?  
2 "Answer: Yes.  
3 "Question: And where are you employed?  
4 "Answer: With Secure Computing GmbH.  
5 "Question: And what is your current title?  
6 "Answer: Vice president, development.  
7 "MR. HANNAH: We have just marked Exhibit 19  
8 (PTX-19). Exhibit 19 (PTX-19) bears Bates number SC 077266  
9 through SC 077274. It's entitled 'Webwasher 5 Training,  
10 Proactive Security.' It also says Paderborn, January 31st  
11 through January 3rd, 2005. It appears to be a  
12 presentation -- a slide show presentation.  
13 "Have you ever seen Exhibit 19 before?  
14 "Answer: I recognize individual slides but I  
15 cannot tell whether I have seen the entire presentation. I  
16 believe I haven't.  
17 "Question: I would like to turn your attention  
18 to the second page, which bears Bates No. SC 077267. It  
19 states that 'Proactive Security,' and then as a bulet point  
20 underneath that, it says, 'Perfect extension to anti-virus  
21 scanning. Scanning of unknown malicious code, day zero  
22 attacks and exploits.' And then, 'Pure gateway solution, no  
23 client software needed.'  
24 "Do you see that?  
25 "Answer: Yes.

308

Kroll - redirect

1 "Question: Can you tell me what your  
2 understanding of what that means?  
3 "Answer: To me, it is a perfect extension of  
4 the traditional anti-virus. It also says that proactive  
5 security is able to find unknown malicious code and that it  
6 is able to protect from day zero attacks and exploits. And  
7 it is a solution that works only at the gateway -- that  
8 works only at the gateway and does not need an installation  
9 at the client computer.  
10 "Question: Are all of these attributes true of  
11 proactive scanning?  
12 "Answer: In terms of marketing, yes. But words  
13 like 'perfect' are not -- are, technically speaking, not  
14 correct -- valid.  
15 "Question: What is the 'day zero attack'?  
16 "Answer: If a new chunk of malware is released  
17 before signatures for it have been made, then day zero is  
18 basically the first day from the moment of its inception  
19 until -- or before signatures have been made for it.  
20 "Question: And how does proactive scanning  
21 prevent day zero attacks?  
22 "Answer: Unknown code can be assigned to  
23 categories -- unknown code for which we do not have  
24 signatures yet can be assigned to categories using rules.  
25 And these categories can be blocked, and this way, day zero



Kroll - redirect

Kroll - redirect

1 attacks, unknown files, can be blocked.

2 "Question: I would like to turn your attention  
3 to the page bearing Bates number SC 03442 (PTX 9A). What  
4 does this page show?

5 "Answer: That is the page -- the only page  
6 which I wish our customers would see.

7 "Question: Okay.

8 "Answer: Because this whole story with  
9 categories is way too complex for our customers. And,  
10 therefore, we have this page where you can choose from three  
11 default settings. And in this case, we have medium as the  
12 default setting; and not only in this case, but that's  
13 generally how we sell the product. And the customer also  
14 has an option of being more relaxed or with higher  
15 strictness. And technically speaking, the false negative  
16 and the false positive rates change.

17 "Question: Is this the security policy that is  
18 set by the administrator?

19 "Answer: Regarding the proactive scanner, I  
20 wish that our customers only used these three buttons --  
21 that their administrators only used these three buttons.

22 "Question: If your customer chose one of these  
23 button, that would set the security policy; is that correct?

24 "Answer: All Webwasher settings are the  
25 security policy. And this setting here changed a part of

1 certain problems with the file so that we can get an  
2 indication that a certain file is blocked which should not  
3 be blocked and that a certain rule might be responsible for  
4 that. And it seems to me that this excerpt shows a log file  
5 of how the filtering of these files work. Other filters  
6 probably would have written more; this is the proactive  
7 scanning filter.

8 "MR. HANNAH: Mark Exhibit 32, please.

9 "(Exhibit 32 marked.) (PTX-32)

10 "MR. HANNAH: Exhibit 32 bears Bates number  
11 SC 077723 through SC 077725 (PTX-32). It is an e-mail from  
12 Thomas Friedrich to a number of individuals, including  
13 Martin Stecher. It is dated 5/23/2003.

14 "BY MR. HANNAH:

15 "Question: Do you recognize this document,  
16 Mr. Stecher?

17 "Answer: I don't remember this document  
18 exactly, but I know what it refers to: Our weekly meetings.

19 "Question: Do you still have these weekly  
20 meetings?

21 "Answer: Yes. Only they have moved to a  
22 different time in the schedule.

23 "Question: In the bottom half of this first  
24 page, there is a reference to Finjan, and it says that  
25 testing has been finished. Martin distributes new version

310

Kroll - redirect

1 this entire security policy. And to be precise, it changes  
2 the settings of the drop-down menus I spoke about on  
3 Tuesday.

4 "Question: Mr. Stecher, before the break, we  
5 were looking at this presentation of Webwasher Proactive  
6 Scanning. We were looking at page bearing Bates number  
7 SC 03446 (PTX-9A). I believe the pending question was, What  
8 does this slide mean?

9 "Answer: So here we are talking particularly  
10 about the media types HTML and scripts, even though HTML  
11 also refers to the fact that scripts can be embedded. And,  
12 again, we have one option of having a look at the scripts  
13 directly or as the other version using the script code  
14 mitigation. And further down, we have a reference to the  
15 Anna Kournikova virus, which I also mentioned on Tuesday.

16 "Question: Does this slide show how script code  
17 mitigation works?

18 "Answer: It doesn't show it as a picture, but  
19 the written description is fairly accurate.

20 "Question: I'd like to turn your attention to  
21 page bearing Bates number SC 03462. What does this page  
22 show?

23 "Answer: Webwasher has a function where all  
24 filters that can be used are written in a specific log file.  
25 We used that for debugging purposes when a customer has

312

Kroll - redirect

1 of document to participants of this meeting only. The paper  
2 is strictly company confidential and must not be further  
3 distributed.

4 "Do you see that?

5 "Answer: Yes.

6 "Question: What is that referring to?

7 "Answer: I probably -- I believe that this  
8 probably refers to the tests of our Finjan evaluation copy,  
9 and Mr. Alme performance double-checks and checked files.  
10 And the results of these tests were not too positive with  
11 regard to the performance of the Finjan products, and I did  
12 not want to circulate this information beyond the small  
13 amount of people.

14 "Question: It might help refer to the next  
15 exhibit, which is 33 (PTX-33).

16 "MR. (HANNAH: And what I would like to mark...

17 "(Exhibit 33 marked.) (PTX-33)

18 "MR. HANNAH: Exhibit 33 (PTX-33) bears Bates  
19 number SC 153656 through SC 153663. It is entitled 'Finjan  
20 SurfinGate Web 7.0 Competitive Analysis.'

21 "BY MR. HANNAH:

22 "Question: Do you recognize this document,  
23 Mr. Stecher?

24 "Answer: I have a faint memory of it, yes.

25 "Question: Is this the document that is

Kroll - redirect

1 referred to in Exhibit 32?

2 "Answer: I think so, yes, even though I mean to  
3 remember that I was actually referring to a rougher version  
4 than this, but date wise it seems to be correct.

5 "Question: Was this document ever shown outside  
6 of Webwasher? And for clarity, I am referring to Exhibit  
7 33.

8 "Answer: I don't know. But I don't hope so,  
9 very much actually, because very clearly it has been marked  
10 as strictly confidential and for internal use only.

11 "MR. HANNAH: I would like to mark Exhibit 34.  
12 It bears Bates number SC 077703 through SC 077705 (PTX-34).

13 "It appears to be an e-mail, although there is  
14 no from or to participants on it, but it is titled, Product  
15 meeting minutes from September 16, 2003. And present -- it  
16 states that Martin was present.

17 "(Exhibit 34 marked.) (PTX-34)

18 "Do you recognize this document, Mr. Stecher?

19 "Answer: It looks like one of the product  
20 meeting minutes and it seems to be the case that Mr. Peter  
21 Borgolte wrote this.

22 "Question: The reference on the first page to  
23 Martin, is that reference to you?

24 "Answer: Yes.

25 "Question: On the second page, you see there is

314

Kroll - redirect

1 a reference to Webwasher 5.0, and -- well, could you please  
2 read that paragraph and let me know when you have had a  
3 chance to do so?

4 "Answer: Okay.

5 "Question: What is meant by that paragraph?

6 "Answer: Ever since the issue do we or should  
7 we build something like proactive security in 2002, at the  
8 same time we kept hearing from our sales team: Please build  
9 something for us so we can compete against Finjan  
10 products -- so that we can compete or respond to Finjan  
11 marketing.

12 "And at the time when we were dealing with 5.0,  
13 we still had clearly different priorities. And in the  
14 meeting, in this meeting, this product development meeting,  
15 I just clearly stated that with this version, we would not  
16 be implementing anything like that; that would come later.  
17 So I stated that at that moment -- at that moment, we  
18 wouldn't have a technical response but we should have a  
19 marketing-based response explaining why we didn't need that  
20 at the time yet.

21 "MR. HANNAH: I would like to mark Exhibit 35,  
22 please.

23 "(Exhibit 35 marked.) (PTX-35)

24 "MR. HANNAH: For the record, Exhibit 35,  
25 (PTX-35) bears Bates number SC 030765 through SC 030766. It

Kroll - redirect

1 is an e-mail from Roland Cuny to a number of recipients,  
2 including Martin Stecher. It is dated April 19, 2004. The  
3 subject is 'Notes: Product Planning September Release.'

4 "Do you recognize this document, Mr. Stecher?

5 "Answer: I do not recognize it as such but I do  
6 not doubt its authenticity.

7 "Question: Number 3 reads 'Proactive Security,'  
8 and underneath, it says, 'It is a key trend identified by  
9 the IDC. Develop own technology or create something similar  
10 to Finjan.'

11 "Did you start to develop a similar technology  
12 to Finjan around the time of this e-mail?

13 "Answer: We thought about our options at the  
14 time and we did some research or science -- we made designs  
15 for our own technology there, which is apparently  
16 characterized by a few similarities with Finjan products.

17 "Question: This reference to IDC, is this a  
18 reference to the IDC opinions that we discussed earlier  
19 today?

20 "Answer: I don't know if it's a reference to  
21 exactly the same documents we had this morning, but I know  
22 that Mr. Cuny dealt with -- deals with IDC documents a lot  
23 more frequently than I do.

24 "Question: I would like to show you Exhibit 16  
25 (PTX-16), which was marked yesterday at the proceedings with

316

Kroll - redirect

1 Mr. Alme. It is an e-mail from Mr. Alme to you that is  
2 dated 5/28/2004, and the subject is 'Proactive Security.'

3 "Do you recognize this document?

4 "Answer: I do not recognize it as such. But I  
5 believe it was an e-mail sent to me. I'll have a look at it  
6 now.

7 "Yes.

8 "Question: Did you write this document or a  
9 portion of this document?

10 "Answer: Yes. What I find a little confusing  
11 is that apparently this quoting system, when you respond to  
12 an e-mail, is exactly the other way around than it should  
13 be. So apparently there are these quote marks with e-mails  
14 to Mr. Alme and not the other way around. I'm slightly  
15 confused by that, but otherwise, yes.

16 "Question: Can you please tell me what is meant  
17 by this document.

18 "Answer: I can go back and try to remember how  
19 the e-mail -- Mr. Alme gives me some feedback about the  
20 exchange of information that happened.

21 "Question: Sure.

22 "Answer: I believe that I started thinking  
23 about how we could go for a basic approach to solve this  
24 problem.

25 "Question: What problem was that?

Kroll - redirect

1 "Answer: The problem of treating unknown files.  
 2 "My approach was rather a black list/white list  
 3 approach. I believe that actually this e-mail is part of an  
 4 e-mail which I sent to the management. So, first of all,  
 5 what I wanted was some feedback to give me a guideline  
 6 regarding the direction of our development, and I also  
 7 wanted to make a point that developing that kind of item  
 8 wouldn't be something that you do just do after lunch, but  
 9 that buy-in and funding would be required for that.  
 10 "And I assume that I also sent this e-mail to my  
 11 employees because I wanted to have some feedback and  
 12 cooperation how this could be implemented. And in this  
 13 feedback -- in this e-mail, Mr. Alme gives me some feedback  
 14 that we have to consider with this approach and what might  
 15 have to be changed.  
 16 "Question: So what were your considerations?  
 17 "Answer: Do you happen to have the original  
 18 e-mail I wrote? That would make it a lot easier for me.  
 19 "Question: I believe it may be part of the next  
 20 e-mail that I would like to mark. So we can go ahead and  
 21 try to take a look at that and see if it is actually the  
 22 same.  
 23 "MR. HANNAH: So for the record, I would like to  
 24 mark Exhibit 36. (PTX-36).  
 25 "(Exhibit 36 marked.) (PTX-36)

318

Kroll - redirect

1 "MR. HANNAH: Exhibit 36 (PTX-36) bears Bates  
 2 number SC 166304 through SC 166318. It is -- the first  
 3 e-mail on the first page is an e-mail from Horst Joepen to a  
 4 number of recipients, including Martin Stecher. I believe  
 5 the e-mail that we are going to talk about first is on a  
 6 page bearing Bates number SC 166305, which appears to be an  
 7 e-mail from Martin Stecher to Horst as well as a number of  
 8 other recipients.  
 9 "Question: Is this the e-mail that you were  
 10 asking for, Mr. Stecher?  
 11 "Answer: Actually, that's it. And it confirms  
 12 my memory that I first sent this e-mail to the managers of  
 13 CyberGuard and Webwasher. I have read the first designated  
 14 part.  
 15 "Question: Can you please explain.  
 16 "Answer: That was in an early stage of our  
 17 ideas of how to implement that. I passed on two  
 18 suggestions, which apparently were the result of a technical  
 19 meeting. And one of these approaches was based on a black  
 20 list and the other on a white list, and I wanted some  
 21 feedback which would meet with some more approval.  
 22 "Question: Which was the black list and which  
 23 was the white list?  
 24 "Answer: The white list is the second one and  
 25 the black list is the first one.

Kroll - redirect

1 "Question: Which of these two options did  
 2 Webwasher pursue?  
 3 "Answer: None of them was implemented.  
 4 "Question: What is different than between what  
 5 is listed here and what was implemented?  
 6 "Answer: The option that was finally  
 7 implemented is closer to what is listed under 1. However,  
 8 we chose more diverse methods to ensure that. And the rules  
 9 and category-based system with media types, which we  
 10 eventually implemented, was only the result of further  
 11 meetings, let alone the extensions that were added after the  
 12 first version.  
 13 "That becomes especially clear if you have a  
 14 look at the error rates I forecast there, and it also  
 15 becomes clear in the mix of options and the higher  
 16 performance rate we eventually achieved with our proactive  
 17 scanner solution.  
 18 "MR. HANNAH: I'd like to mark Exhibit 37.  
 19 (PTX-37).  
 20 "(Exhibit 37 marked.) (PTX-37)  
 21 "MR. HANNAH: And I think it makes sense to mark  
 22 Exhibit 38 (PTX-38) as well.  
 23 "(Exhibit 38 marked.) (PTX-38)  
 24 "MR. HANNAH: For the record, Exhibit 37  
 25 (PTX-37) bears Bates number SC 075235 through SC 075236. It

320

Kroll - redirect

1 appears to be an e-mail from Frank Berzau to Thomas -- to a  
 2 number of participants, including Martin Stecher.  
 3 "Exhibit 38 (PTX-38) is presumably an attachment  
 4 to this e-mail. It bears Bates number SC 155173 through  
 5 SC 155181, and it is a document -- the first line says,  
 6 'Proactive Security,' and it describes a number of patents.  
 7 "THE WITNESS: May I correct the counsel in  
 8 that?  
 9 "BY MR. HANNAH:  
 10 "Question: Absolutely.  
 11 "Answer: This certainly was not an attachment  
 12 to this e-mail.  
 13 "Question: Okay. I was just about to ask you  
 14 about that.  
 15 "With regard to Exhibit 37, if you look at  
 16 number 3, it states that Roland was doing research on  
 17 proactive security -- on proact., and I think it means see  
 18 patents from Finjan and Trend.  
 19 "Do you see that?  
 20 "Answer: Yes.  
 21 "Question: Is this the research we discussed  
 22 earlier today and a couple of days ago with regard to the  
 23 patent research Roland was doing -- and to be precise --  
 24 Roland Cuny was doing?  
 25 "Answer: That was the reference to that, yes.

Kroll - redirect

Vigna - direct

1 "Question: Now I'd like to turn your attention  
2 to Exhibit 38.  
3 "Is this document a summary of the research that  
4 Roland Cuny was doing?  
5 "Answer: Almost everything that Mr. Cuny did  
6 was documented within the intranet by Mr. Cuny himself; and  
7 with regard to this task, he saved or he put this content on  
8 the intranet."  
9 MR. ANDRE: Your Honor, that concludes the  
10 reading of the deposition transcripts for now.  
11 We would actually ask for the break a bit  
12 earlier. We are getting into that complex portion of the  
13 technology we talked about. This generates a lot of heat  
14 so we have to turn it off for a reason.  
15 THE COURT: Ladies and gentlemen, we will take  
16 our break a little early today.  
17 (Jury leaves courtroom at 10:30 a.m.)  
18 (Recess taken.)  
19 THE COURT: Ms. Walker.  
20 (Jury enters courtroom at 10:55 a.m.)  
21 THE COURT: Please take your seats, ladies and  
22 gentlemen.  
23 Mr. Andre, your next witness.  
24 MR. ANDRE: Thank you, Your Honor. May it  
25 please the Court, we would like to call Dr. Giovanni Vigna

322

1 to the stand.  
2 GIOVANNI VIGNA, having been duly  
3 sworn as a witness, was examined and testified as follows:  
4 MR. ANDRE: Your Honor, we are going to be  
5 getting into the complex technology portion of the case that  
6 I have been warning everybody about. So we would like to  
7 give out two binders to the jury.  
8 THE COURT: All right.  
9 (Binders passed to jurors.)  
10 THE COURT: You may proceed, Mr. Andre.  
11 MR. ANDRE: Thank you, Your Honor. We will be  
12 showing all the exhibits on the screen and all the relevant  
13 pages. If the binders get too unwieldy, we will make sure  
14 everyone can see them otherwise.  
15 THE COURT: I am sure the jury will find it  
16 helpful.  
17 DIRECT EXAMINATION  
18 BY MR. ANDRE:  
19 Q. Good morning, Dr. Vigna. Would you please provide us  
20 with your educational background?  
21 A. Yes. I got my Master's in electronic engineering at  
22 the Politecnico di Milano in Italy in 1994. Then I got my  
23 PhD, again in electronic engineering, Politecnico di Milano  
24 in 1998.  
25 Q. What is your employment background since you finished

1 in 1998?  
2 A. I was at the computer science department of the  
3 University of California in Santa Barbara as a post-doc  
4 until 2000, when I was hired as an assistant processor, and  
5 then in 2004, I got tenure and became an associate processor  
6 in that department.  
7 Q. What type of research do you do at UC Santa Barbara?  
8 A. My research focused on computer security in general.  
9 And I have worked extensively on intrusion detection  
10 systems, vulnerability analysis, web security, and malware  
11 detection.  
12 Q. Do you have any awards or honors for your research?  
13 A. Well, a college paper that got awarded, for example, a  
14 best paper award. Recently, I got a Most Influential Paper  
15 from ten years ago from the International Conference of  
16 Software Engineering. And I got also awards for teaching.  
17 In particular, I got the academic teaching award, which is  
18 given to the four top processors at US SB each year.  
19 Q. What type of classes do you teach at University of  
20 California Santa Barbara?  
21 A. I teach both undergrad and graduate classes. At the  
22 undergraduate level, I teach upper division classes on  
23 operating systems, natural computing, and computer security.  
24 At the graduate level, I teach computer security  
25 classes like macrosecurity, intrusion detection,

324

Vigna - direct

1 vulnerability analysis and such.  
2 Q. Have you received any funding for your research?  
3 A. Yes. That is part of our survival in the system. So  
4 I have several grants that I obtained from different  
5 agencies, including the Department of Defense, the Army, and  
6 the National Science Foundation.  
7 Q. Do you have any publications specifically relevant to  
8 computer security?  
9 A. Yes. I would say that almost all my publications are  
10 on computer security, with a few notable exceptions at the  
11 beginning of my career where I was more focusing on software  
12 engineering issues.  
13 Q. Have you given any type of tutorials or lectures on  
14 computer security outside of your classroom?  
15 A. Yes. When I was in Italy, I gave several tutorials to  
16 law enforcement agencies and banking institutions about  
17 practical security, how systems are broken into and what are  
18 the best countermeasures.  
19 And in my carrier here in the United States for  
20 the past ten years, I have given several tutorials in  
21 different forms.  
22 Q. Are you a member of any organizations that would be  
23 relevant to computer security?  
24 A. Yes. I am part of several organizations, the ACM, the  
25 IEEE, the International Society and the Users Association,



Vigna - direct

1 which are general computer science associations, but, of  
2 course, my focus within those is on security.  
3 Q. Do you have any type of editorships at this time?  
4 A. Actually, I am involved in, I think, four editorial  
5 boards. That means that I am part of a group of people  
6 that, for several journals, decides which papers are going  
7 to be accepted. And I am a member of the Journal of  
8 Computer Security, the IEEE Transactions on Dependable and  
9 Secure Computing, the ACS Transaction on Information System  
10 Security, and the IEEE Internet Security Magazine.  
11 Q. Have you been the chair of any committees relating to  
12 network security?  
13 A. I did. I have been the chair of the RAID Conference,  
14 which is the Recent Advances in Intrusion Detection  
15 Conference, and of the NDSS Conference, the Network and  
16 Distributed System Security Conference.  
17 Q. What technical program committees have you been  
18 involved with?  
19 A. A number. I don't remember them all. But the major  
20 conferences in my field, such as IEEE Security and Privacy,  
21 the NDSS Committee, ACM Computer and Communications Security  
22 Committee, User Net Security, and so forth.  
23 Q. Do you supervise any graduate students at the  
24 University of California Santa Barbara?  
25 A. Yes, I do. That is again part of my job as a

326

Vigna - direct

1 processor. It's like remembering the name of your kids.  
2 I think I have six Ph.D. students right now, a  
3 couple of post-docs, and two or three Master's students. I  
4 hope I haven't forgotten anybody.  
5 MR. ANDRE: Your Honor, at this time, I would  
6 like to tender Dr. Vigna as an expert in computer security.  
7 THE COURT: Any objection?  
8 MR. HOLDREITH: No, Your Honor. I will ask  
9 questions later.  
10 THE COURT: Dr. Vigna is accepted by the Court  
11 as an expert witness.  
12 THE WITNESS: Thank you, Your Honor.  
13 MR. ANDRE: Thank you, Your Honor.  
14 BY MR. ANDRE:  
15 Q. Dr. Vigna, you were retained by Finjan in this case.  
16 Is that correct?  
17 A. Correct.  
18 Q. And could you tell us what you were retained to do in  
19 this case?  
20 A. Well, what I was asked to do is to give my objective  
21 opinion on the fact that one of -- a class of the products  
22 of Secure Computing was infringing on three of the patents  
23 held by Finjan.  
24 Q. And were you asked to be an expert in this case --  
25 before you were asked to be an expert in this case, did you

Vigna - direct

1 have any opinions on this topic?  
2 A. Absolutely not.  
3 Q. What did you rely upon in forming your opinion in this  
4 case?  
5 A. Documentation, analysis of the source code. I read a  
6 number of documents, including depositions, documents from  
7 the court. And I also attended a demonstration.  
8 Q. Did you look over the patents?  
9 A. Of course.  
10 Q. Did you rely on the interpretation the Court's  
11 interpretation of the claims of those patents?  
12 A. Yes, I did.  
13 Q. Did you look at the Webwasher product itself?  
14 A. I did. I did look over the product, and I looked also  
15 at the source code for the product.  
16 Q. What was your ultimate conclusion after you did all of  
17 this analysis?  
18 A. So I went claim by claim for the three patents. And I  
19 found that for all the claims that I was asked to provide an  
20 opinion about, there was infringement. So the Secure  
21 Computing product infringed the claims.  
22 Q. Did you find that the Webwasher software infringed the  
23 claims?  
24 A. Correct.  
25 Q. Did you find that the Webwasher appliance, the box,

328

Vigna - direct

1 itself, infringed the claims?  
2 A. Yes, that, too.  
3 Q. Did you find that the CyberGuard TSP infringed the  
4 claims?  
5 A. As it contains that code, yes, it does.  
6 Q. Now, just so -- we will keep pointing to this. Over  
7 in the corner, we have set up a little mini Internet. Is  
8 that correct?  
9 Can you explain what the setup is over here?  
10 A. Yes. So this is sort of like a very simplified,  
11 extremely simplified version of the Internet and how a  
12 client would interact with the outside Internet.  
13 So here I have a laptop that represents the  
14 client that is trying to access some resource in the outside  
15 Internet, like you would go on the Internet and try to  
16 access a web page or unload some kind of executable, and  
17 that computer right there represents the Internet. But, of  
18 course, it just represents one host in the Internet.  
19 And that pizza box, that's what we call it in  
20 our jargon, represents the appliance which sits between the  
21 client and the server and performs the analysis, blocking  
22 whatever has to be blocked and so forth.  
23 THE COURT: Members of the jury, if any of you  
24 need to stand to see, that is fine. I notice you straining  
25 your necks. Please feel free to stand.

Vigna - direct

1 BY MR. ANDRE:

2 Q. As we go through these claims, feel free to refer to  
3 that any time you want. We will walk through some of the  
4 documentation first since we have the big binders.

5 A. Okay.

6 Q. I would like to show you JTX-1. It is not in your  
7 binder, I don't believe. We have marked that earlier. That  
8 is the '194 patent.

9 You are familiar with this patent, Dr. Vigna?

10 A. Yes, I am.

11 Q. We have prepared a demonstrative regarding this  
12 patent.

13 Could you just generally describe what the '194  
14 patent discloses?

15 A. Sir, can you repeat that question?

16 Q. We prepared a demonstrative of this patent.

17 Can you generally describe what the '194 patent  
18 discloses?

19 A. Yes. So this patent focuses on describing a method  
20 to -- whenever -- to analyze the downloadables that are  
21 addressed to our client. So whenever the downloadable is  
22 sent towards the client, it is intercepted, and it is  
23 analyzed, so the functions that are executed, or that could  
24 be potentially executed by the downloadable are extracted,  
25 and, through a number of rules, are abstracted into possible

330

Vigna - direct

1 malicious operations.

2 In this case, for example, you have this purple  
3 downloadable that, after the analysis, generates a file  
4 saying that it might read to a file, it might write to a  
5 file. After that, the patent describes a technology, so  
6 that the profile of the possible actions that a downloadable  
7 could perform is compared to a policy that says, Well, if it  
8 writes to a file, then it should be blocked, for example.  
9 And if the actions, the list of possible actions match the  
10 policy, then the downloadable is blocked. And it is not  
11 allowed to reach the client.

12 Of course, there are other things that can be  
13 done to determine if the downloadable is desirable or not  
14 depending on the policy. I think the '194 patent includes  
15 looking for digital signatures, URL White Lists, URL Black  
16 Lists, and so forth.

17 Q. The second patent in this case, JTX-2, which is the  
18 '780 patent, are you familiar with that patent?

19 A. Yes, I am.

20 Q. Is this the one that discloses during the ID?

21 A. Correct.

22 Q. Can you describe how that is done?

23 A. The ID in this case is that as downloadables are  
24 fetched, whenever they are fetched, a unique ID is  
25 generated. That ID is used to identify uniquely that

Vigna - direct

1 particular downloadable. This is done so that whenever the  
2 downloadable is downloaded again, it can be easily compared  
3 to whatever has been seen before so that the work doesn't  
4 have to be done twice.

5 Q. And the third patent in this case is the JTX-3, which  
6 is the '822 patent. We have a demonstrative of this as  
7 well.

8 Would you describe generally what this patent  
9 discloses?

10 A. Yes. In this case, this patent describes a method so  
11 that, in certain cases, if a downloadable contains code,  
12 and, for some reason, that code, for example, cannot be  
13 immediately identified as malicious or not, additional code  
14 is packed with the downloadable so that whenever the  
15 downloadable got eventually executed on the client, if a  
16 dangerous operation is invoked, it is not the actual code of  
17 the downloadable that gets executed. But, first, this  
18 additional code, called "sandboxing code," is executed first  
19 so that additional checks at one time can be performed. And  
20 then, if everything is legit, the original code is executed  
21 afterwards.

22 Q. How does the '822 patent work with the '194 patent?

23 A. The '194 patent is, defines a method to get a  
24 downloadable and identify this category of possible  
25 malicious actions. This is done not by executing the code

332

Vigna - direct

1 but just by analyzing the image of the code.

2 I will give you a little explanation in a  
3 second.

4 While the '822 patent, whenever the first method  
5 is not effective, the '822 patent adds another level of  
6 security, so that if you cannot really decide if something  
7 is bad, well, put some code around it and send it to the  
8 client so that if that thing that you couldn't decide  
9 happened to be bad, it will be caught eventually.

10 This is because, these are two, if you want,  
11 general approaches to securing code which roughly correspond  
12 to static analysis and dynamic analysis. This is a  
13 scientific term.

14 In layman's terms, in the first case, look at  
15 the downloadable, it's like reading a play. You see what  
16 the actors would say and you have a rough idea of what could  
17 happen in the play but you really don't see the play. Just  
18 reading the script of the play, you can see, Othello is  
19 going to kill Desdemona, or something like that. So this  
20 could be something bad.

21 When the code is actually executed is when the  
22 play, so when the script is actually enacted. At that  
23 point, it might happen that, you know, the particular actor  
24 does never get to that scene for some reason. So it's not a  
25 problem. Or maybe it does get to that scene, and that is a

Vigna - direct

1 problem. But you know only when the actual code or the  
 2 actual play is actually played out, and, therefore, you need  
 3 two different mechanisms.  
 4 Q. Putting aside the patent for the time being, generally  
 5 speaking, what does the Webwasher product do?  
 6 A. So, the Webwasher product acts as an intermediary  
 7 between the client and the server. And whenever the client  
 8 requests a resource, the Webwasher appliance will request  
 9 that resource on behalf of the client, retrieve that  
 10 resource, perform some analysis, and decide if that resource  
 11 has to be sent to the client or not.

12 That analysis includes analyzing downloadables,  
 13 which are resources that might contain code, extracting,  
 14 parsing the downloadable, extracting functions, determining  
 15 what a downloadable could do, comparing that profile with a  
 16 security policy that says what is allowable, what is not  
 17 allowable, and deciding to block or not to block.

18 In some cases, it might decide to add some  
 19 sandboxing code so that the decisions that could not be made  
 20 when the downloadable was first downloaded will be made on  
 21 the client's side during execution.

22 Q. I want to get into the looking at the Webwasher  
 23 product now and comparing it to the claims of the patent.  
 24 We will start with the '194 patent and Claim 1, JTX-10.

25 MR. ANDRE: Your Honor, this is a claim chart.

334

Vigna - direct

1 THE COURT: That's fine.

2 MR. ANDRE: Your Honor, is it okay if I move  
 3 from the podium?

4 THE COURT: Absolutely.

5 MR. ANDRE: Thank you.

6 BY MR. ANDRE:

7 Q. If you look at Claim 1 of the '194 patent, we have  
 8 broken this down into three claim elements, it's a  
 9 computer-based method, comprising the steps of. And the  
 10 first step is receiving an incoming downloadable addressed  
 11 to a client by a server that serves as a gateway to the  
 12 client.

13 Does the Webwasher -- when I say "Webwasher  
 14 product," I am talking about the software and the appliance  
 15 itself, the question is: Does the Webwasher product receive  
 16 an incoming downloadable addressed to a client by a server  
 17 that serves as a gateway to the client?

18 A. Yes, it does.

19 Q. Now, you are aware that the Court interpreted the term  
 20 "downloadable," are you not?

21 A. Yes.

22 Q. Did you use the Court's interpretation?

23 A. Yes, I did.

24 Q. And the term "downloadable" was interpreted as an  
 25 executable application program which is downloaded from a

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1 source computer and run on the destination computer?

2 A. Correct.

3 Q. What are some examples of downloadables?

4 A. Well, examples of downloadables are ActiveX controls,  
 5 which are binary objects that are sent to a browser and will  
 6 be executed within a browser. There are Java applets, which  
 7 are Java programs that again will be executed within a  
 8 browser, JavaScript code, which is interpreted code that  
 9 could be either in a separate file or as part of the actual  
 10 web page, so embedded in the web page itself, DV script  
 11 code, macros attached to documents and so forth.

12 Q. Does the Webwasher receive an incoming downloadable?

13 A. Yes, it does.

14 Q. I would like to -- we will show you this on the screen  
 15 for you -- show PTX-10. If we will go to Page 4A, Bates  
 16 Nos. 1363. If you will highlight this section right here.

17 This talks about Webwasher protects against the  
 18 ActiveX controls. Do you see that?

19 A. Yes.

20 Q. Would that be an example of downloadable?

21 A. Absolutely.

22 Q. And Java applet right here?

23 A. Yes.

24 Q. Visual Basic script, would that be a downloadable?

25 A. Yes.

336

Vigna - direct

1 Q. Claim 1 also talks about it serving as the gateway, as  
 2 a gateway to, serves as the gateway. If you will go up on  
 3 that same page, up in this area, the second bullet point  
 4 right here, it says, "Performs a heuristic analysis at the  
 5 gateway and blocks program code based on its potential  
 6 behavior. Do you see that?"

7 A. Yes.

8 Q. Could you please explain what that is talking about?

9 A. Well, a gateway is this intermediary between the  
 10 client and the server. And it's definitely the obvious  
 11 place where you would put a protection system. And the  
 12 Webwasher acts as the gateway between the client and the  
 13 server, and, therefore, it is able to intercept the  
 14 downloadable addressed to the client and perform the  
 15 analysis as needed.

16 Q. Would you go back to the first page of this document,  
 17 PTX-10.

18 Did you rely on this document in performing your  
 19 analysis in your expert report?

20 A. I think so. I would have to check my expert report to  
 21 make absolutely sure that this is the document, since there  
 22 were several very similar documents. But I would say yes.

23 Q. And this document is entitled, "Webwasher Mobile Code  
 24 Filter-Detection and Classification of Malicious Mobile  
 25 Code."

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Vigna - direct

1 What does this document describe, generally?

2 A. This document describes this proactive scanning that  
3 is performed by Webwasher to identify a downloadable that  
4 can potentially be harmful and block that.

5 Q. There is a term that has come up quite often in this  
6 case, I didn't know the meaning of it until you told me, the  
7 term "heuristic."

8 What does that mean?

9 A. Heuristic is sort of a practical rule. So heuristic  
10 is sort of like experience codified. So a heuristic is, in  
11 layman's terms, could be a rule of thumb. But in some way,  
12 your experience allows you to codify a number of pieces of  
13 information so that you can put them together and make a  
14 decision.

15 So a classic example is when you want to assess  
16 a situation. So we are very good at heuristics as human  
17 beings. We are not as good at heuristic as computers. But,  
18 for example, I think in my report, I have the example of a  
19 bank. And you see a person in the bank. And you have to  
20 decide if that person is a customer or a robber or something  
21 else. And you see that that person carries a gun. Then  
22 heuristic would sort of flash and say, Okay, a gun in a  
23 bank, not very good, but could be a guard. Right? So,  
24 okay. If it's a gun and it's a guard, then it's okay.

25 But, for example, if it's -- if the person has a

1 "addressed to a client" was brought up in counsel's opening  
2 statement, saying that was a very specific term of art.

3 Do you have an ordinary meaning of that term?

4 A. Absolutely. For me, it's clear that "addressed to a  
5 client" means that the final destination of the  
6 downloadable, or whatever the communication is, is the  
7 client. So that means that the ultimate destination of  
8 something is described that way.

9 So, I am looking for an example, but -- okay.

10 For example, you are in high school and you are passing  
11 little notes, I used to do that in high school sometimes  
12 when I got bored, so you passed little notes. And you want  
13 to reach somebody at the other side of the room. Actually,  
14 the farther away the guy is, the more fun it is; right? So  
15 you give it to your next-door person and say, Hey, give it  
16 to Jim, and there is some funny comment on something.

17 And this person knows that that note is  
18 addressed to Jim. So he will pass it on until eventually it  
19 reaches Jim, and Jim will probably send back another funny  
20 note and so forth.

21 The concept here is that you want some  
22 communication that has to reach a certain person and it's  
23 very clear who that person is.

24 Q. And in the world of computers, are there a lot of  
25 different ways to address, in this case, downloadables to a

338

Vigna - direct

1 gun and has a ski mask on, then it's not that good. That's  
2 a heuristic, because how do you know that a guy with a gun  
3 and a ski mask is not a harmless person? You know. It is  
4 your experience codified. If you see somebody with a ski  
5 mask and an gun, you make a certain decision.

6 Q. I want to show you one more document, PTX-12. This  
7 was another document that was listed in your expert report.

8 Could you describe generally what this document  
9 is describing?

10 A. Again, I think this is describing step-by-step how  
11 proactive scanning is performed. So the process of  
12 retrieving a downloadable, extracting categories of  
13 behavior, and based on these categories, apply a security  
14 policy that determines if a certain downloadable is  
15 acceptable or not.

16 Q. If we go to the next page of that document, and you  
17 look at the heading under "Behavior Heuristics," you will  
18 see a type of malicious code right here in this section,  
19 ActiveX, Windows, Executable, et cetera.

20 Are those examples of different types of  
21 downloadables as described in the '194 patent?

22 A. Yes, these are examples of the downloadables.

23 Q. Now, the second part of this first element, where it  
24 says, "Receiving an incoming downloadable addressed to a  
25 client by a server that serves as a gateway," the term

340

Vigna - direct

1 client?

2 A. Well, you have to understand that addresses at home  
3 are different from addresses at work. When something is  
4 addressed to somebody, it is clear from the context that  
5 that is supposed to go to that client.

6 In the particular case, for example, of a setup  
7 with a gateway, the client performs a request. And the  
8 intermediary, the gateway, or the proxy, whatever is in the  
9 middle, remembers, Oh, the client asked for this resource.  
10 So when the resource is asked on behalf of the client and  
11 received back from the website, or wherever the resource is  
12 asked, the proxy knows that the ultimate destination of that  
13 resource is the client and the downloadable is addressed to  
14 the client, and, therefore, it's passed on.

15 Q. Does the Webwasher receive downloadables that are  
16 addressed to a client?

17 A. Absolutely, yes.

18 Q. And is it by a server that serves as a gateway to the  
19 client?

20 A. Correct, because it acts as an intermediary between  
21 the client and the server. Whenever the client asks, the  
22 intermediary says, Okay, I am going to ask for you -- asks  
23 for the actual resource, gets the resource, which is to the  
24 client, and passes it on.

25 Q. I want to direct your attention to PTX-26. This is



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1 another document that was listed in your expert report that  
2 you rely upon.

3 Do you recall what this paper was about?

4 A. Yes. I think it describes the Webwasher product and  
5 how it performs proactive scanning.

6 Q. What is this term "White Paper"? What does that mean?

7 A. "White Paper," it's a very generic term that is used  
8 in the scientific community to describe a semi-scientific  
9 description of a process.

10 So it's a technical report that is a mix of  
11 technical information and marketing information that is used  
12 to describe a technology and usually trying to appeal to a  
13 large segment of the population. So a technical paper, like  
14 what I would write, is to other scientists and usually they  
15 are probably boring to read and very technical. These are  
16 trying to be a little more, a little simpler and more easy  
17 to read.

18 Q. If I turn to the last page of this, Page 28 of PTX-26,  
19 there is a paragraph right here, just the first sentence, it  
20 says, "Webwasher CSM Suite runs on the gateway only and  
21 requires no client software to deploy or maintain."

22 Could you describe what that sentence is  
23 stating?

24 A. Yes. I mean, this sentence describes in a nutshell  
25 what the Webwasher CSM Suite does. It is on the gateway, so

342

Vigna - direct

1 it acts as an intermediary within the client server, and it  
2 says it does not require any client side modification.

3 It claims to have novel methods to verify media  
4 types, verify digital signatures, and block entrusted  
5 program code. In particular, it says it performs heuristic  
6 analysis. So based on these rules, to block program code  
7 based on potential behavior, potential actions that could be  
8 performed, and also that it neutralizes suspicious script  
9 code that it could exploit vulnerability on the client's  
10 side.

11 Q. I am going to show you one more document, PX-153.  
12 This is another document that you relied upon in your expert  
13 report.

14 Could you describe what this is?

15 A. This is a manual. If I remember, it is actually a  
16 pretty thick one. And it describes the feature of the  
17 Webwasher Anti-Malware product, Version 6.0, which includes  
18 a number of the things that we discussed so far.

19 Q. I will direct your attention to Page 1-1 that ends in  
20 Bates Page 345. This paragraph right here, The Webwasher  
21 anti-malware product enabled you to configure in depth  
22 malware detection and blocking at the corporate gateway.

23 Did you use that in forming your opinion that  
24 the Webwasher is a server that serves as a gateway to the  
25 client?

Vigna - direct

1 A. Yes. This and other points in the documentation that  
2 you are highlighting. But this is pretty clear, yes.

3 Q. Did you rely on any deposition testimony, we heard  
4 some this morning, about how the Webwasher serves as a  
5 gateway as well?

6 A. Yes. I remember, I think, I read the deposition of  
7 Mr. Stecher, which said that the product was working on the  
8 gateway.

9 Q. Now, given the documents we have looked at, and if you  
10 will look at the setup over here, is this a configuration  
11 showing the Webwasher serving as a gateway to our little  
12 molecule Internet here?

13 A. Yes. So the setup is now the client and the appliance  
14 are configured so it acts as a gateway to the Internet.

15 Q. Our little sign went off the monitor. The one with  
16 the monitor is the actual Internet. Is that correct?

17 A. Correct.

18 Q. That computer is serving as an Internet or browser on  
19 the Internet, and then it goes through the Webwasher  
20 product. Is that correct?

21 A. Correct.

22 Q. Then it goes to your laptop on the stand here, and  
23 that's the client?

24 A. Correct.

25 Q. So, given all the documents you have looked at, the

344

Vigna - direct

1 deposition testimony and the actual configurations that you  
2 have seen here, what is your opinion? Does the Webwasher  
3 receive an incoming downloadable addressed to a client by a  
4 server that serves as a gateway to the client?

5 A. Yes.

6 Q. Okay if we put a check in that box?

7 A. You can.

8 Q. We will start the second element now. The second  
9 element of Claim 1 talks about comparing, by the server,  
10 downloadable security profile data pertaining to the  
11 downloadable, the downloadable security profile data  
12 includes a list of suspicious computer operations that may  
13 be attempted by the downloadable against a security policy  
14 to determine if the security policy has been violated.

15 Now, we talked a little about heuristic, and we  
16 heard counsel say in his opening statement that what  
17 Webwasher does is it tries to determine the potential, it  
18 tries to determine if something is potentially harmful. And  
19 he claimed that the patent claim here required that it has  
20 to know that something is bad, and he made a distinction  
21 between the potential harm and a known harm.

22 Is that your understanding of what this claim  
23 language is talking about?

24 A. Sir, my understanding is that this claim describes how  
25 to identify a computer operation that might be performed by

Vigna - direct

Vigna - direct

1 a downloadable. And then comparing those possible actions  
2 with respect to a security policy.

3 Does that answer your question?

4 Q. It does. Does the Webwasher product perform the  
5 method in Part B of Claim 1 here, Element B?

6 A. Absolutely, yes.

7 Q. When you see the word listed "suspicious computer  
8 operations," is that using heuristic as a word, the  
9 suspicious operations?

10 A. Yes. Because in my understanding, Webwasher analyzes  
11 the downloadable, extracts the actual functions that might  
12 be executed, and then uses these heuristic rules to identify  
13 potential suspicious behavior. And there are a number of  
14 behavior categories. This set of possible behaviors  
15 represents a profile. And then this is compared with a  
16 security policy.

17 Q. Counsel also mentioned that the Webwasher product does  
18 not create a profile that includes a list.

19 Do you agree with that statement?

20 A. I think that the product produces a list of suspicious  
21 behavior.

22 Q. Could you use the flip pad there --

23 MR. ANDRE: Your Honor, may I approach and move  
24 that out a little bit?

25 THE COURT: Yes.

346

Vigna - direct

1 BY MR. ANDRE:

2 Q. Could you draw on the flip pad how Webwasher creates a  
3 profile that includes a list of suspicious computer  
4 operations?

5 A. Yes.

6 (Witness steps down from stand.)

7 Can you see it?

8 Q. Yes.

9 A. So the main idea is that a downloadable is received by  
10 the intermediary, it went the client and the server. So  
11 this downloadable is received, and here it is analyzed. And  
12 this analysis produces, as a result, a number of functions  
13 that could be executed. And "function" is a term to  
14 describe a low-level representation of an action, like Write  
15 to a File.

16 So a function could be called "FWrite," say. So  
17 if I see this function in the code, I am going to say, Okay,  
18 since this function is in the code, potentially it might  
19 execute an FWrite. There could be others. Like an FRead,  
20 there can be a function to write to the registry, which is a  
21 very sensitive part of the Windows operating system. It  
22 depends on the type of downloadable.

23 Then what happens is that there are some rules  
24 here that say, Well, you know, if I Xerox, for example, this  
25 function for this particular type of downloadable, then I

1 can say that, in a more categorical fashion, This

2 downloadable writes to file.

3 This is very simple. It's a one-to-one mapping.

4 So it is a very simple heuristic rule. It is sort of like  
5 the ski mask.

6 Well, if I, for example, read from a file and  
7 write to the registries, I may decide this is like the ski  
8 mask plus gun situation, and as I decide if I see both of  
9 this, I will just say, for example, I don't know, Write  
10 Registry. I am doing an example. These are specific  
11 functions that are invoked in the code, and then some rules  
12 are applied to generate these categories of behavior. And  
13 we have a list, so this guy writes to a file, writes to the  
14 registry, for example, talks to processes, and, for example,  
15 sends e-mail.

16 So, here, I have my list of suspicious behavior  
17 for this particular downloadable.

18 Then I send this to another component that  
19 contains a security policy that pretty much decides,  
20 depending on, you know, of course there are certain things  
21 that are obvious, certain things that might depend on the  
22 particular installation, the particular user, the particular  
23 environment, and it says, Well, you know, if it writes a  
24 file, this cannot go through.

25 So, here, there is some kind of security policy,

348

Vigna - direct

1 and it's one of the security policies of the system.

2 Security policies are very general terms. That means pretty  
3 much whatever the whole system thinks about security. It  
4 can be many different things.

5 One subset of the security policy is the one  
6 that decides, Hey, if this things writes to file, I don't  
7 want to see it in my network. So if this type of behavior  
8 happens, kill this thing.

9 So when it is retrieved from the Internet with  
10 the Webwasher appliance and this behavior is found and  
11 violates a security policy, this guy will never allow that  
12 downloadable to reach this particular client, and,  
13 therefore, this client is protected.

14 So, here, it decides, you know, go to the trash,  
15 or it goes to the client if it is okay.

16 Okay?

17 (Witness resumes stand.)

18 Q. Now, I am going to show you document PTX-113. This is  
19 one of the documents you relied on in your report. And this  
20 is the step-by-step guide again. We will go to Page 10 of  
21 this report, 1396 Bates page. On the bottom portion of this  
22 document, this is the first paragraph here, it talks about  
23 behavior profile. Do you see that?

24 A. Yes.

25 Q. Would you please explain what that is talking about?

Vigna - direct

Vigna - direct

1 A. That is talking about the process of actually both  
 2 extracting the type of behavior, giving the functions and  
 3 then using the policy to describe how important certain  
 4 parts of the behavior are. So, if, for example, a security  
 5 policy might say, If it is writing to a file and it is  
 6 reading from the registry, then it's really bad. So it's a  
 7 heuristic.  
 8 Q. Is a behavior file, is that equivalent to what is  
 9 referred to here as a -- a "behavior profile" equivalent to  
 10 what is referred to here as a "security profile"?  
 11 A. Yes. In the patent, I think it's referred to as the  
 12 "downloadable security profile" or "DSP." That's what I am  
 13 talking about.  
 14 Q. It is exactly the same thing?  
 15 A. It is pretty much the same thing.  
 16 Q. When we talk about the list of suspicious computer  
 17 operations -- in the same document, go to Page 18 and 19,  
 18 PTX-113.  
 19 Here you have some headings of different types  
 20 of, I guess what you call "functions," or I don't know what  
 21 you call these?  
 22 A. Actually, these are categories of behavior.  
 23 Q. Categories of behavior. In these type of categories,  
 24 would these be the list of suspicious computer operations  
 25 you are referring to?

1 listed on PTX-11. Page 15. If you look at the first one up  
 2 here, it says, "Read/Write Access to a Local File."  
 3 Is that the same as what is being described  
 4 right here?  
 5 A. Yes.  
 6 Q. If you go down to the next one here, "Read/Write  
 7 Access to the Registry," is that what is being described  
 8 right here?  
 9 A. Yes.  
 10 Q. Then we will skip down one here to "Dynamic Loading,"  
 11 right here.  
 12 Is that what is being described right here?  
 13 A. Yes.  
 14 Q. So the list of suspicious computer operations, that's  
 15 an example list that is disclosed in the '194 patent, is the  
 16 same as the list of operations, suspicious computer  
 17 operations disclosed in these Webwasher documents?  
 18 A. Yes. There is a very close resemblance.  
 19 Q. Not to beat a dead horse, I do want to show you one  
 20 more exhibit, PTX-26. Go to page 11.  
 21 Do you recognize that paper? PTX-26. That is  
 22 another white paper.  
 23 A. Yes.  
 24 Q. This list here of the security check, where it says,  
 25 "Local File, System Read Access," is this -- how does that

350

Vigna - direct

1 A. Correct.  
 2 Q. So this first one says, "Read or Write to Access the  
 3 Local File"?  
 4 A. Yes.  
 5 Q. The second one is, "Read/Write Access to the  
 6 Registry"?  
 7 A. Yes. And, as you can see here, I mean, these are  
 8 fairly abstract ways to describe those operations. And, so,  
 9 part of the mapping is going to those lower-level functions  
 10 to this file operation. Because, for example, "Read and  
 11 Write Access to Local File" might be different if you are  
 12 talking about an ActiveX control or a Java applet, that's  
 13 what the heuristics do. They ask for the way to behave.  
 14 Q. If you compare this to what is listed in the patent,  
 15 Column 5 of the '194 patent, and in Column 6, it talks about  
 16 an example list of operations deemed potentially hostile.  
 17 You see, "File Operations, Read a File, Write a File"?  
 18 A. Yes.  
 19 Q. Are those the same categories or same list that you  
 20 saw on the Webwasher product?  
 21 A. It's very similar in content to that list. So it  
 22 describes reading from a file, writing to a file, reading  
 23 and writing to the registry, and so forth.  
 24 Q. If we go through PTX-11, which is another document you  
 25 rely upon, I just want to compare the patent to what is

352

Vigna - direct

1 relate to the list of suspicious computer operations?  
 2 A. It is a suspicious computer operation.  
 3 Q. And in the same document, if you go to Page 14, and  
 4 you highlight this area right here where it says, "The  
 5 strict mobile code," it says, it is entitled, "Proactive  
 6 Scanner," could you read that and tell me what that is  
 7 saying there?  
 8 A. So, this snippet of text describes a particular  
 9 pre-configured security policy called "Strict," that say  
 10 that mobile code may be malicious or may perform an  
 11 operation not required for that kind of mobile code will be  
 12 blocked. So only mobile code that does not perform any  
 13 suspicious or un-required operation will be allowed.  
 14 And this is, my understanding of the Webwasher  
 15 product, this is one of the possible security policies that  
 16 are used to interpret the list of behavior categories.  
 17 Q. Is this an actual screen shot from the Webwasher  
 18 product itself?  
 19 A. Yes, I think it is.  
 20 Q. And if you look back to the "B" element of Claim 1,  
 21 where it says you have a downloadable security profile data  
 22 pertaining to the downloadable, the downloadable security  
 23 profile data includes a list of suspicious computer  
 24 operations that may be attempted by the downloadable, is  
 25 that portion of that element, what you just described,

Vigna - direct

1 found --

2 A. Yes, it is.

3 Q. Is that found in the Webwasher product?

4 A. I did find it in the Webwasher product.

5 Q. And then, To compare that against a security policy to

6 determine if the security policy has been violated; do you

7 see that?

8 A. Yes.

9 Q. What we just saw earlier, was that the security policy

10 that you would compare it against?

11 A. Yes.

12 Q. I believe you were here for the opening statements of

13 counsel. Counsel actually admitted there was a security

14 policy in the Webwasher product.

15 Do you recall that?

16 A. Yes.

17 Q. If we go back to PTX-26, we go to the next page, Page

18 15, could you tell us what we are looking at right here on

19 the Webwasher product?

20 A. This, I do believe, is either derived from or is

21 directly a straight shot from the Webwasher product. And it

22 shows how to configure a security policy where you decide

23 for certain type of downloadables what categories of

24 behavior should cause the downloadable to be acceptable or

25 not acceptable.

354

Vigna - direct

1 For example, two down, the second group of

2 things, you have the "Write Access to Local Files." And it

3 decides that, you know, it allows if that particular

4 behavior is identified.

5 If you go, instead, to the last one, it says

6 that if it acts as if it accesses other processes, it might

7 decide to block in the high capability configuration.

8 Q. Did you rely upon any other source of information --

9 strike that.

10 Let me ask you a question first. Based on your

11 view of all the documentation in this case, did you find

12 that the B element of Claim 1 was infringed by the Webwasher

13 product?

14 A. Yes.

15 Q. Did you rely on any other information, like deposition

16 testimony, to determine that?

17 A. Well, all the sources that are listed in my expert

18 report.

19 Q. And for both the A and B, did you look at source code

20 of the product, itself, as well?

21 A. Yes, I did.

22 Q. Did the source code confirm that those elements were

23 infringed?

24 A. Yes.

25 Q. By the Webwasher product?

Vigna - direct

1 A. Yes, I am confident that the code demonstrates that.

2 Q. So is it okay if I put a check in this box B here?

3 A. Go ahead.

4 Q. Then the final element of Claim 1 talks about

5 preventing execution of the downloadable by the client if

6 the security policy has been violated.

7 Did you find that the Webwasher product had this

8 feature, performed this method?

9 A. Absolutely, yes.

10 Q. And I will go through these very quickly. If we go to

11 PTX-10, Page 4A. This is the introduction to the document

12 here. It talks about preventing malicious JavaScript and

13 the other type of content inspection.

14 Is this, in essence, preventing execution of

15 downloadable by the client if the security policy has been

16 violated?

17 A. Well, this part of the evidence, other evidence is

18 gained by operating the appliance. And if you see that

19 there is an downloadable that matches messages sent to the

20 users saying that a downloadable has been blocked.

21 Also, in other places in the documentation, it

22 shows clearly that a message is sent to the user saying that

23 the downloadable has been blocked.

24 Q. So, in the second bullet point, it says, "Performs an

25 analysis and blocks program code based on its potential

356

Vigna - direct

1 behavior"?

2 A. Correct.

3 Q. That's for C?

4 A. Yes.

5 Q. Based on your view of all the documents in this case,

6 the source code and deposition testimony, what is your

7 position regarding the C element of Claim 1?

8 A. That Webwasher infringes the claim.

9 Q. And since all three of these elements are infringing,

10 in your opinion, would you give an opinion that Claim 1 of

11 the '194 patent is infringed?

12 A. I think so, yes.

13 Q. Seeing this documentation that is nice -- could you

14 actually show us how this operates on an actual appliance?

15 A. Yes.

16 Okay. What we have here is a setup that is

17 somewhat contrived. It is, of course, simplified because

18 bringing the Internet into the courtroom would have been a

19 little complicated.

20 So this computer will actually, the computer

21 laptop here on my desk will play two different roles, which

22 could be slightly confusing. So I will use it to access the

23 appliance and show you how the appliance is configured and

24 the type of messages it would create. And I will also use

25 this computer as the client computer, as the normal user



Vigna - direct

1 would use it. And I will tell you each time which hat I am  
2 wearing so that you don't get confused.  
3 But the main important thing that you try to  
4 understand is that the requests will start from this laptop,  
5 will go through the appliance and get to the Internet.  
6 Actually, why don't we start by not having the appliance be  
7 the intermediary between us and the rest of the world.  
8 So, to do that, I will start by opening the  
9 browser, going to Internet Options. I am sure some of you  
10 have done this before. I go to Connections. I go to LAN  
11 Settings. And I say, See user proxy server for your LAN.  
12 This particular setting is telling my computer  
13 to always -- actually, the browser, in particular, to always  
14 use Webwasher as my intermediary to the rest of these.  
15 The moment I do this (indicating), then I am not  
16 using it anymore. So if I do okay and I go to this web page  
17 that you see here, this web page is actually a web page on  
18 the server, as you might notice, this web page has been  
19 directly copied from the Secure Computing website. It  
20 contains a number of downloadables that are supposed to be  
21 blocked.  
22 So it's like a testing page that Secure  
23 Computing put on the Internet so you can test if your system  
24 is actually working.  
25 Right now, I disabled the Webwasher, so I am not

358

Vigna - direct

1 using it as an intermediary, and, therefore, when I go here,  
2 as a professor, I know that whenever you do a Daymove,  
3 something is not going to work. Right now, if I click on  
4 this, I should be able to download it no problem. In fact,  
5 it comes back to me and says, Do you want to download this  
6 class? And if I say "save" here, I will actually save it on  
7 my computer. So no protection. Whatever I try to access, I  
8 get. This is not very good, especially considering this  
9 class could do something really bad to me.  
10 Now I will configure my browser, we will go back  
11 to the Internet Options, Connection, LAN Settings, and we  
12 will say, Yes, I want to use a process server as my  
13 intermediary as a gateway to the Internet.  
14 Okay. Now, at this point, all my requests to  
15 the Internet will go through the gateway.  
16 So now I will stop for a second to be the  
17 client, and I will be the administrator of that Webwasher  
18 device that you see, the pizza box right there.  
19 So here is how I access the Webwasher. This is  
20 the interface. And, for example, I can go here. I have to  
21 authenticate myself so that I can do all the modifications  
22 that I want. You see this anti-malware. There was some  
23 proactive scanning. I look, for example, here is something  
24 to say, Oh, these are behavioral heuristics. Here I am  
25 showing you an interface again to that particular device,

Vigna - direct

1 the Webwasher product.  
2 So I am not acting as a client. I am wearing  
3 the hat of the administrator of the gateway between the  
4 client and the server. For example, here, you can see that  
5 for, I think this is very similar to what we saw before, for  
6 ActiveX control, I can decide that certain operations, like  
7 the dynamic creation of program code, should cause the  
8 blockage of this particular download.  
9 So here is your security pause. It says, Allow  
10 or deny, depending on certain particular -- apply changes, I  
11 guess it's right here.  
12 So, here I am. And here I see -- remember those  
13 very high-level restrictions for policies? Here, in  
14 particular, I am choosing the script policy that will say  
15 whenever something even, you know, is doing something that I  
16 don't want, block that downloadable. I could choose a  
17 medium or a relaxed one. These are sort of like a  
18 simplified version of all the different rules that you could  
19 apply. Instead of giving you a million options or giving  
20 you three options, three possible policies, and I chose the  
21 strict one.  
22 Now we know that we have a strict policy for the  
23 gateway. So, what I would expect -- now, I am again the  
24 client, so now I am a user, I just went to this web page,  
25 and I say, Oh, cool, there is this thing that they are

360

Vigna - direct

1 asking me to download, I am going to click on it because it  
2 looks fun, it's called follow your class.  
3 When I do this, I have to check, if I am really  
4 going through our friend here, let's make sure this is  
5 actually active. And this should be correct. That should  
6 be right.  
7 So now when I download this, that makes sense,  
8 the request has been blocked by proactive scanning.  
9 So what you see here is that it says, Well, your  
10 request for this particular clear beam dot exit has been  
11 blocked, and because this program could potentially perform  
12 a file write access, dynamic code loading, and vulnerable  
13 operations.  
14 So this is a list of three categories of  
15 behavior that my policy says, When you see this type of  
16 behavior, block it. That is a ski mask and your gun right  
17 there.  
18 So this is how they are identified. And here  
19 you can see the malware, the file type, et cetera, et  
20 cetera. You can see this has been generated, while the  
21 clock on this machine is not really up to date, it is  
22 18:58:53. So at 6:00 p.m., 58 minutes and 53 seconds.  
23 So I am the user. I try to access this file.  
24 My intermediary intercepted the downloadable address to me  
25 and said, Uh-Huh, you ain't going to see this, because we



Vigna - direct

Vigna - direct

1 identify that as something bad for you. And, therefore,  
2 instead of receiving the downloadable, I am receiving from  
3 Webwasher this warning mask saying, I blocked it.

4 Now, I am taking off the hat of the user and I  
5 am going back to the administrator. Because suppose I got,  
6 as a client, I went to myself, as the administrator, and  
7 say, you know, What's happening here? Why am I not getting  
8 the executable that I want to get?

9 So, now, as an administrator, I will go back  
10 here, and, for example, let's see if I remember what this  
11 is, I want to see the log files and understand what's going  
12 on, and, for example, I want to see a filter. Okay?

13 Now I have to look for something that looks  
14 like, in time, similar to what I saw right here. So here it  
15 said, if you remember, 18:58:53. This then happened exactly  
16 at that point. You are here, 18:58.

17 THE COURT: Hold on just a second. There is a  
18 request for a sidebar.

19 (The following took place at sidebar.)

20 MR. HOLDREITH: I am sorry to interrupt, Your  
21 Honor. This is pretty well beyond his report. I don't mind  
22 if he does this demonstration. We have got nothing to hide  
23 here. But I am going to want the same kind of latitude for  
24 my expert to respond to it.

25 THE COURT: Let's first see if it is beyond his

1 proactive scanning is starting. So this is where this  
2 proactive scanning process begins.

3 This is just a block. I will show you in other  
4 forms what is actually going on behind this very simple  
5 output.

6 So it defines two different low-level  
7 executions. You see this kernel 32 DLM load libraries that  
8 are not very descriptive, but, you know, the high-level  
9 behavior is code loading. This is determined using a  
10 certain heuristic. That is Rule No. 81.

11 Then there is another weird type of thing that I  
12 don't want to look at. It tells me, this tells me, through  
13 Rule 376, that the behaviors are File Write and Vulnerable.  
14 So these are the list of categories of behavior that are  
15 extracted by parsing the binary and identifying those  
16 low-level functions. And those are then compared to the  
17 security policy, and guess what? The content is denied.  
18 And an exception throws a mobile code blocked. That's what  
19 you receive.

20 So this shows exactly within the appliance the  
21 list of -- how the list of behavior categories is extracted,  
22 so the behavior profile, and how this profile is actually  
23 compared to the access control list or security policy, and,  
24 eventually, the downloadable is blocked.

25 Q. And just looking at there log here, how does that

362

Vigna - direct

1 report.

2 MR. ANDRE: Your Honor, everything is in his  
3 report. He reviewed the source code. He listed this  
4 appliance as a document he reviewed. He talked in great  
5 detail about the functionality as he is describing it right  
6 now. So I think it is in his report.

7 MR. HOLDREITH: Nothing about this filter stuff.

8 THE COURT: That is your word. That is your  
9 word. I want to see it. Otherwise, we can resolve it,  
10 counsel has requested to have what he describes as  
11 "latitude."

12 MR. ANDRE: We can do that as well. If their  
13 experts wants that latitude with respect to the appliance.

14 THE COURT: That is fine.

15 (End of sidebar conference.)

16 THE COURT: You may continue.

17 THE WITNESS: Thank you.

18 This is something the user usually doesn't see.  
19 Since the user complain, this has been blocked, the  
20 administrator went in and identified something that happened  
21 when the user identified the problem at 18:58:53. You can  
22 see here, this is a log. I think it is similar to something  
23 that was shown before, where sort of a debug information  
24 that is useful to troubleshoot problems. And here you can  
25 see, you know, that there is this mobile code filter and

364

Vigna - direct

1 relate to receiving the incoming downloadable and then  
2 comparing the profile to the policy and then blocking of the  
3 policy, can you just walk through the three steps?

4 A. That is exactly what happens here. So the  
5 downloadable is received, of course, because it is  
6 intercepted by the intermediary. The proactive scanning is  
7 starting. And the system is analyzed. And this profile is  
8 extracted, which is Code Loading, File Write and Vulnerable.  
9 And this is actually compared to a security policy and  
10 eventually blocked. As you can see, this is the same  
11 process described in those claims.

12 Q. You mentioned you saw a log similar to that earlier.  
13 If we go to PTX-9, this was in the deposition transcript  
14 that was read by my colleagues today, by Mr. Alme.

15 Is that the log that you are talking about?

16 A. Yes.

17 Q. Does this show a screen shot from the Webwasher  
18 product?

19 A. Definitely looks like it.

20 Q. Does this give the same steps that you just showed  
21 with the Webwasher product that would include the steps in  
22 Claim 1?

23 A. Yes.

24 Q. Now, you mentioned earlier that you were going to be  
25 able to show us how this is actually done.

Vigna - direct

Vigna - direct

1 Does that have to do with the source code?

2 A. Yes.

3 Q. Did you review the source code in coming up with your

4 opinion that Claim 1 of the '194 patent was infringed by

5 Webwasher?

6 A. Yes.

7 Q. We will get to the source code when we get to the

8 other claims and we will relate back to it so we don't have

9 to switch computers too much.

10 Did you find every element of Claim 1 in the

11 Webwasher product?

12 A. Yes, I did.

13 Q. Have you ever heard of something called the "Doctrine

14 of Equivalents"?

15 A. Yes, I did.

16 Q. What is the Doctrine of Equivalents?

17 A. So, I am not a lawyer, so allow me to use wrong

18 verbiage. I am not super precise maybe.

19 My understanding is that the Doctrine of

20 Equivalents says that even though sometimes there is no

21 absolute literal correspondence between a claim and

22 something in a product that is supposed to be infringing, if

23 the product does the same thing, in substantially the same

24 way, with substantially the same results, then it is

25 infringing. And that's my understanding.

366

Vigna - direct

1 Q. Now, in your analysis, did you find that Claim 1 of

2 the '194 patent was literally infringed by the Webwasher

3 product?

4 A. Yes, I did.

5 Q. Did you find, to the extent that the Defendants were

6 going to raise a defense to these claims, at the very least,

7 doesn't Webwasher products perform substantially the same

8 function, that's all of the claim elements in Claim 1 of the

9 '194 patent?

10 A. Yes.

11 MR. HOLDREITH: We have an objection based on

12 prosecution history estoppel.

13 (The following took place at sidebar.)

14 THE COURT: Is this an issue that was addressed

15 at the pretrial conference?

16 MR. HOLDREITH: It is in our jury instructions

17 that we asked for at the close of the case. You have not

18 ruled on this.

19 MR. ANDRE: You did at the pretrial conference,

20 Your Honor. It was brought up. It was an attempt to end

21 run the summary judgment motion.

22 THE COURT: I thought I ruled it out of order.

23 MR. HOLDREITH: It is on particular elements of

24 the claim. List was added by amendment. He can't testify

25 of --

1 THE COURT: I will tell you what he can and

2 can't testify to.

3 Again, was this not addressed at the pretrial

4 conference. If not, why not?

5 MR. HOLDREITH: We have a jury instruction

6 pending with Your Honor.

7 THE COURT: I am not talking about the jury

8 instruction. I think this was addressed during the course

9 of the discussion of at least one of the motions in limine.

10 That is my question. Was it or wasn't it?

11 MR. HOLDREITH: We didn't get to the jury

12 instructions. It was not in a motion in limine. There was

13 a motion on the Doctrine of Equivalents in general. We are

14 talking about specific elements now.

15 THE COURT: Go ahead.

16 MR. ANDRE: Your Honor, it was a motion on

17 Doctrine of Equivalents and this witness in particular. And

18 Your Honor denied that motion. So now we are talking about

19 Doctrine of Equivalents and they are bringing it up.

20 THE COURT: So now you are parsing the objection

21 that you made earlier in the form of a motion?

22 MR. HOLDREITH: No, sir. I just don't want to

23 waive our request for the jury instruction with list.

24 THE COURT: I don't know how you practice law in

25 Michigan. You preserved this with your motion in limine, I

368

Vigna - direct

1 think.

2 There is an objection? Why are we interrupting

3 this jury right now, to discuss this right now, a matter

4 that we are going to have to discuss at the jury prayer

5 conference? Why are we doing that?

6 MR. HOLDREITH: I thought I needed to make the

7 objection.

8 THE COURT: You don't. I tried to give

9 Mr. Schutz the direction. I am going to try to give you

10 some.

11 I think your positions are well-preserved on

12 these issues. I am directing you to keep in mind the

13 arguments you may have had heretofore. And stop

14 interrupting the witness' testimony during the course of

15 this trial. It is unnecessary.

16 (End of sidebar conference.)

17 BY MR. ANDRE:

18 Q. Dr. Vigna, going back to the doctrine of equivalents,

19 at the very least, does the Webwasher product perform

20 substantially the same way as the method in Claim 1?

21 A. Yes.

22 Q. At the very least, does the Webwasher product yield

23 the same results as the results of the method of Claim 1?

24 A. Yes.

25 Q. That's for each and every element of Claim 1 for each

Vigna - direct

Vigna - direct

1 of those analyses?

2 A. Correct.

3 Q. Let's go to some of the dependent claims now. You

4 understand what a dependent claim is in this case?

5 A. Yes.

6 Q. So Claim 2 is dependent upon Claim 1. Is that

7 correct?

8 A. Yes.

9 Q. Can we show Claim 2, please.

10 Claim 2 is the method of Claim 1, further

11 comprising the step of decomposing the downloadable into the

12 downloadable security profile data.

13 Do you see that?

14 A. Yes.

15 Q. Does the Webwasher product decompose the downloadable

16 into the downloadable security profile data?

17 A. Yes. That's the step that I identified there, where

18 the downloadable is parsed, the basic functions are

19 extracted, and by applying heuristic rules to those

20 functions, the categories of behavior, the list of

21 categories is extracted, which represent the security

22 profile.

23 Q. If we turn to PTX-12, this is the step-by-step guide

24 you relied on for your opinion. Is that correct?

25 A. Yes.

1 decompose the binary, which is just ones and zeros, into,

2 into something which has meaning.

3 Q. Based on your view of the documentation of Webwasher

4 and your review of the actual appliance and the source code,

5 did you come up with an opinion as to whether the Webwasher

6 appliance infringes Claim 2 of the '194 patent?

7 A. Yes. In my opinion, it infringes.

8 Q. Can I put a check in that box?

9 A. We can put a check in that box.

10 MR. ANDRE: Your Honor, I am going to take a

11 step back.

12 BY MR. ANDRE:

13 Q. At the very least, does the Webwasher perform

14 substantially the same function, all the elements of

15 Claim 1?

16 A. Yes.

17 Q. Just in case I didn't get an answer, I want to have it

18 for the record. Thank you.

19 We will go to Claim 3. Claim 3 is dependent

20 upon Claim 2, wherein, The security policy includes an

21 access control list and further comprising the step of

22 comparing the downloadable security profile data against the

23 access control list."

24 Dr. Vigna, did you form an opinion as to whether

25 the Webwasher product infringed Claim 3 of this patent?

370

Vigna - direct

1 Q. If you turn to Page 10 of that document, the top

2 paragraph of this document here, it talks about behavior

3 heuristics.

4 A. Okay.

5 Q. Could you describe what we are talking about in this

6 first sentence here where it talks about decomposing the

7 program code?

8 A. Yes. This paragraph describes the fact that proactive

9 scanning decomposes the program code, so it parses the

10 program code and potential function codes in parameters. So

11 those function codes that I described, and it classifies

12 them as, at least the possible behaviors, using these

13 heuristic rules.

14 Q. I have heard you use the word "parsed" a few times.

15 Is that the same as being decomposed?

16 A. Yeah. I mean, you can have different types of

17 downloadables. And each downloadable, each type of

18 downloadable has its own characteristics. So an ActiveX

19 control is not the exact same thing as a Java applet, even

20 though it might perform the same function.

21 So you need different parsers -- I am sorry.

22 This is actually, probably decomposing would be more of a

23 layman's term. But a parser is something that analyzes that

24 representation and identifies those -- it can do anything,

25 but, in particular, it will identify this function and

372

Vigna - direct

1 A. Yes. My opinion is that the Webwasher product

2 infringes that claim.

3 Q. When you are in the product itself, can you show where

4 that infringes?

5 A. Yes. Right now?

6 Q. Sure.

7 A. This can be shown in different ways. I will show, I

8 guess, later how the code actually infringes that. So I

9 will show you the exact characteristic of the code.

10 Now, Windows is the gray. Actually coming back

11 to life, it did. So I am going to wear the hat of the

12 administrator. Let's see. So we are talking about access

13 control lists. Let's say, for example, Java applet. This

14 allow, block that you see here, allow, block, block, block,

15 allow, allow, this is the definition of an access control

16 list, it's a list of statements that says, If this happens,

17 block, or allow. Where the -- and this is obviously applied

18 to different categories of behavior, such as Write Access to

19 Local File, as you can see up above, Access to the Network,

20 Dynamic Loading of Program Code and so forth.

21 This is just one example for Java applet. But I

22 guess that, you know, we can look at it for, I don't know,

23 Visual Basic scripts and so forth.

24 Q. If you look at PTX, the screen shot, PTX-10, would

25 this also be like an access control list that you are

Vigna - direct

1 talking about?

2 A. Yes. Absolutely.

3 Q. So, based on your view of the product, the source code

4 and the documents in this case, do you have an opinion as to

5 whether the Webwasher product infringes Claim 3?

6 A. Yes, it does.

7 Q. Is it okay if we check that box?

8 A. You can check that box.

9 Q. All right. The next claim is Claim 4A. This is the

10 method of another dependent claim, Claim 1. It says, "The

11 steps of scanning for a certificate and comparing the

12 certificate against a trusted certificate."

13 Do you have an opinion as to whether the

14 Webwasher product infringes Claim 4A?

15 A. Yes, it does.

16 Q. And what is that opinion based upon?

17 A. Well, documentation, knowledge of the source code, and

18 operation of the appliance.

19 Q. I am going to show you what's marked as PTX-154. This

20 is another White Paper on the Webwasher product. If you go

21 to Page 11 of this document, this first sentence right here

22 above the table, can you tell me that is talking about

23 there?

24 A. Yes. So, in this case, this paragraph describes the

25 fact that Webwasher inspects the code's certificate and

374

Vigna - direct

1 detects expired or revoked certificates as well as unwanted

2 authors. And I think that -- let me say just two words

3 about certificates.

4 So this is a rather complex concept that is

5 difficult to explain in a clear fashion, so I will try to do

6 my best. The idea is that it is possible to associate with

7 a downloadable some kind of electronic legal document called

8 a certificate that says, in a way that cannot be tampered

9 with or that is tamper evidence so we try to modify it, you

10 will be caught. It tries to identify who wrote this mobile

11 code or what is the content of the mobile code.

12 So the certificates are used in a number of

13 different ways. For example, when a downloadable is

14 received through a browser and there is a certificate, the

15 browser says, Okay, let's analyze the certificate. The

16 certificate says, in a way that cannot be forged, that this

17 piece of code comes from Microsoft. So the browser says,

18 Hey, Microsoft, I am Microsoft, I am Windows, I like this

19 guy, I am going to execute it.

20 So you can make decisions based on the

21 certificate. Of course, Microsoft is not the only one that

22 can create certificates for downloadables. Everybody can.

23 So there will be a policy that will say, Okay, I

24 trust these people, and you have to understand that these

25 certificates cannot be forged. It is really important. It

Vigna - direct

1 is like you would sign the code, and, actually, it's called

2 "signing the code." Of course, there is no physical

3 signature. Just ones and zeros. But through the

4 application of certain cryptographic functions, it is

5 possible to bind the certificate to the code.

6 I am sorry, it's really difficult not to get

7 technical with this. But it's a way to say, in an

8 un-forgeable way, where this code comes from and then you

9 can make decisions based on these certificates. That's what

10 they do.

11 Q. If you look at the user manual, PTX-153, of the

12 Webwasher product, we go to Page 4-67. The Bates number is

13 529. You will see the bottom half of this page is called

14 "Certificate Verification." Do you see that?

15 A. Yes.

16 Q. Is that a -- how does that play into Claim 4 regarding

17 the scan certificate and compare the certificate against the

18 trusted certificate?

19 A. In this particular case, what is shown here is a

20 procedure through which a certificate is verified to be

21 still good. So if it has been revoked, that means that that

22 certificate is not valid anymore, or is expired, because,

23 actually, these certificates can have an expiration date, so

24 they are not valid forever but only for a limited amount of

25 time. Then the Webwasher has the ability to say, Hey, I

376

Vigna - direct

1 will block a particular downloadable if the associated

2 certificate is expired or revoked.

3 Q. Based upon your view of the technical documents in

4 this case and the testimony and the appliance and source

5 code, do you have an opinion as to whether Claim 5 is

6 infringed or not?

7 A. Yes, it does.

8 Q. I am sorry, Claim 4, one step ahead, Claim 4.

9 A. All right. Difficult to keep track.

10 Yes.

11 Q. This is the one regarding the steps of scanning for a

12 certificate and comparing the certificate against the

13 trusted certificate?

14 A. Yes.

15 Q. Okay to put a check in that box?

16 A. You can check it.

17 Q. Thanks.

18 All right. Now we will go to Claim 5. This is

19 the claim, the method of Claim 1, "Further comprising the

20 step of comparing the URL from which the downloadable

21 originated against a known URL"; do you have an opinion as

22 to whether the Webwasher product actually compares the URL

23 from which the downloadable originated against a known URL?

24 A. Yes.

25 Q. What is that opinion?



Vigna - direct

1 A. Well, the opinion is that it does compare to a list of  
 2 known URLs.  
 3 So it is possible to make a decision based upon  
 4 what the URL is. Maybe everybody knows what a URL is?  
 5 Q. Would you please explain that?  
 6 A. A URL is called a Uniform Resource Locator. It's that  
 7 HTTP://www.cnn.com/index.HTML. It is a long string that  
 8 terms where a resource is on the Internet. It says which  
 9 article to use to get that resource, what is the server that  
 10 has the resource, what is the resource name. You put that  
 11 all together, you see that on top of your browser, that is  
 12 called a URL. Maybe you know what it is. But I cannot  
 13 assume that.

14 Q. Looking at the user manual, PTX-153, on Page 3-30,  
 15 Page 423 is the Bates number, you will see a couple  
 16 paragraphs here talking about URLs.

17 How do those two paragraphs relate to your  
 18 opinion regarding Claim 5?

19 A. This shows that, you know, URLs can be added and used  
 20 as filters, and that known good or known bad, URLs can be  
 21 used as a basis to allow or reject a certain downloadable.

22 Say, okay, if I downloaded, for example, this  
 23 particular piece of code from www.Microsoft.com, I can say,  
 24 Well, it is from Microsoft website, I trust it. Or I might  
 25 say, If this downloadable came from a URL that is known to

378

Vigna - direct

1 be, for example, a site where pirate software or Trojan  
 2 horses are instituted, then I would like to block it.  
 3 Q. Based on your view of the product, the source code,  
 4 and the documentation, do you have an opinion as to whether  
 5 the Webwasher infringes Claim 5 of the '194 patent?  
 6 A. I think it does, because it provides a mechanism to do  
 7 exactly that.

8 Q. If we go to Claim 6, this is the method of 5 wherein  
 9 the URL is a trusted URL.

10 Did you just discuss that with the documents we  
 11 just saw?

12 A. Yes, and this is also the case. One possibility is to  
 13 identify some URLs, like, for example, anything that comes  
 14 from www.Microsoft.com as denied, and, therefore, you want  
 15 to trust it.

16 Q. And I am going to do 6 and 7 together. Claim 7 talks  
 17 about the method of Claim 5 wherein the known URL is an  
 18 untrusted URL?

19 A. Correct. That would be an example of the website from  
 20 which people download pirate software, for example, Trojan  
 21 applications.

22 Q. Based on your view of the source code in this case,  
 23 the appliance, and the documentation, is it your opinion  
 24 that Webwasher infringes Claim 5 -- Claim 6 of the '194  
 25 patent?

Vigna - direct

1 A. Yes.

2 Q. Can I put a check here?

3 A. Go ahead.

4 Q. Based on your view of the source code, the Webwasher  
 5 appliance, and the documentation and testimony in this case,  
 6 is it your opinion that the Webwasher product infringes  
 7 Claim 7 of the '194 patent?

8 A. Yes.

9 Q. Okay if I put a check there?

10 A. Go ahead.

11 Q. The next series of claims, they are Claims 8 through  
 12 11 that have been asserted in this case. They talk about  
 13 the method of Claim 1 wherein the downloadable is a Java  
 14 applet or ActiveX control or JavaScript or Visual Basic.

15 You talked about those quite a bit today. Is that correct?

16 A. Correct.

17 Q. And did you form an opinion, as to Claim 8, whether  
 18 the method of Claim 1 as to whether the downloadable is a  
 19 Java applet?

20 A. Yes. In my opinion, the method of Claim 1 is used  
 21 when the downloadable is a Java applet, an ActiveX control,  
 22 JavaScript, or Visual Basic script in the Webwasher product,  
 23 so my opinion is that the Webwasher product infringes all of  
 24 those claims.

25 Q. And that's based -- is that based on the documents we

380

Vigna - direct

1 saw earlier today, as well as your view of the source code  
 2 and the product itself?

3 A. Correct.

4 Q. I have to do these individually because that is the  
 5 rules. We are trying to get through this and it's about  
 6 lunchtime.

7 Based on your view of the source code, the  
 8 appliance, and your documentation and deposition testimony,  
 9 is your opinion that Webwasher infringes Claim 8 of the '194  
 10 patent?

11 A. Yes.

12 Q. Can I put a check in that box?

13 A. Check the box.

14 Q. Is it your opinion that, based on your review of the  
 15 source code, the appliance in this case, and the  
 16 documentation you reviewed and the deposition testimony,  
 17 that the Webwasher infringes Claim 9 of the '194 patent?

18 A. Yes, and you can check the box.

19 Q. And based on your review of the source code, the  
 20 appliance, the documentation and testimony, is it your  
 21 opinion that Webwasher infringes Claim 10 of the '194  
 22 patent?

23 A. Yes. You can check the box.

24 Q. And based on your review of the source code, the  
 25 appliance, and the documentation and testimony in this case,



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1 is it your opinion that Webwasher infringes Claim 11 of the  
2 '194 patent?

3 A. Yes. You can go ahead and check the box.

4 MR. ANDRE: Your Honor, now is a natural  
5 breaking point for lunch. Do you want to go till 1:00?

6 THE COURT: Yes.

7 MR. ANDRE: We will go to 1:00. That's fine.

8 THE COURT: Good.

9 BY MR. ANDRE:

10 Q. We will go to Claim 12. This is the method of Claim 1  
11 where the security policy includes a default security policy  
12 to be applied regardless of the client to whom the  
13 downloadable is addressed.

14 Dr. Vigna, did you form an opinion as to Claim  
15 12 of this patent?

16 A. Yes.

17 Q. What is your opinion?

18 A. The opinion is that the Webwasher product infringes  
19 this claim, as it provides a security policy that, a default  
20 security policy that would be applied regardless of the  
21 particular destination of a downloadable.

22 Q. Could you show that on the appliance itself?

23 A. So this, for example, shows this, "Proposes," up here,  
24 you can see "Proposes Default Policies For Mobile Code."

25 And these are the policies that will be applied regardless

382

Vigna - direct

1 of the particular destination.

2 Q. Does that support your opinion that the Webwasher  
3 product infringes Claim 12 of the '194 patent?

4 A. Yes.

5 Q. Is it okay to put a check in that box?

6 A. It is okay.

7 Q. Did you base that opinion upon a review of the source  
8 code, the appliance, and the documentation you were provided  
9 in this case?

10 A. Yes.

11 Q. Let's go to Claim 13. This talks about the method of  
12 Claim 1 where the security policy includes a specific  
13 security policy corresponding to the client to whom the  
14 downloadable is addressed.

15 Dr. Vigna, did you form an opinion as to Claim  
16 13 in this case?

17 A. Yes.

18 Q. What is your opinion?

19 A. That it infringes.

20 Q. And are you able to show that on the product itself?

21 A. I could show the side effect of that happening. I am  
22 sure that there is a way you can optimize the policy for a  
23 particular user.

24 My opinion is based fundamentally on the fact  
25 that when code is sent to protect a client, that code is

Vigna - direct

1 customized to the particular environment of the client. And  
2 in my expert report, you will find an exact point where it,  
3 for example, is shown that the sent code depends on the type  
4 of browser, whatever code is activated depends on the  
5 browser that the client has.

6 That's one way to address the particular user.

7 Or, otherwise, one can go to this User Management tab, and,  
8 for example, define specific type of policies for specific  
9 recipients, IP addresses, sender, group, user name. So you  
10 can see clearly from this particular part of the appliance  
11 how policy management can be customized for a particular  
12 user.

13 Q. Let me show you, also on Exhibit 152, Page 4-60, which  
14 is Bates No. '914.

15 This is the user guide for Webwasher you relied  
16 on before. Is that correct?

17 A. Yes.

18 Q. Would you look at the "Modifying, Creating and  
19 Deleting Policies" section?

20 A. Correct.

21 Q. Does that describe what you were just talking about --

22 A. Yes.

23 Q. -- with respect to Claim 13?

24 Could you please describe what you are looking  
25 at?

384

Vigna - direct

1 A. So here is the part of the manual that describes how  
2 to modify a policy. And you can customize a policy to a  
3 specific group of users or a specific IP. And, therefore,  
4 you can address, you know, apply specific rules to specific  
5 users.

6 Q. Based on your review of the source code, the  
7 appliance, itself, the documentation in this case, is it  
8 your opinion that the Webwasher infringes Claim 13 of the  
9 '194 patent?

10 A. Yes, it does.

11 Q. Can I check the box?

12 A. You can check the box.

13 Q. Claim 14 talks about -- I will just read it from here.  
14 The method of Claim 1, where the client belongs to a  
15 particular group, and the security policy includes a  
16 specific security policy corresponding to the particular  
17 group.

18 Do you see that?

19 A. Yes.

20 Q. Did you form an opinion about Claim 14?

21 A. Yes. If you look at the appliance and you put it on  
22 the screen, you can see that this, a particular group, like  
23 identified here, can be defined and mapped to a particular  
24 policy. And this allows you to identify a group of people  
25 for whom certain policies apply. That's stated in this

Vigna - direct

1 particular snapshot of the Webwasher interface.  
 2 Q. Based on your review of the source code in this case,  
 3 the appliance, and the documentation, did you form an  
 4 opinion as to whether the Webwasher product infringes Claim  
 5 14 of the '194 patent?  
 6 A. Yes. My opinion is that it infringes.  
 7 Q. Can I check the box?  
 8 A. You can check that box.  
 9 Q. Now we go down to Claim 24 of the '194 patent.  
 10 Do you have an understanding of what this claim  
 11 is talking about here?  
 12 A. Yes. In this case, the decision is made also by  
 13 comparison of the downloadable being analyzed against a  
 14 known downloadable.  
 15 Q. Did you form an opinion as to whether the Webwasher  
 16 product infringed Claim 24?  
 17 A. Yes, it infringes.  
 18 Q. And what did you base that opinion upon?  
 19 A. For example, by looking at the source code, it is easy  
 20 to show that a downloadable, when it is received, is  
 21 compared to existing downloadable, for example, by  
 22 generating an ID, in particular, an M.D. 5 ID of that  
 23 downloadable, to see if that particular downloadable has  
 24 been seen before, and, therefore, it is known.  
 25 Q. If we go to the user manual, PTX-152, and go to Page

386

Vigna - direct

1 4-5, it talks about, I think it's 4.2, "Virus Scanning."  
 2 Does that support your opinion as to Claim 24?  
 3 A. Yes. This is another way of comparing to a known  
 4 downloadable. In this particular case, we have discussed in  
 5 this court before the concept of signatures. The classic  
 6 virus scanning technique is to have a number of identifiers  
 7 or signatures for specific downloadables, or specific  
 8 malicious codes or malware, and compare the signature with  
 9 what we know already.  
 10 Q. In this Claim 24, this is taking the -- is it taking  
 11 the proactive scanning as described in Claim 1 and combining  
 12 that with the traditional signature-based scanning?  
 13 A. I think so. It is a form of reactive scanning,  
 14 because you are reacting to something that is known, being  
 15 that you will describe that very well, saying that it's like  
 16 a photo album of things I have seen before.  
 17 In this particular case, you are going through  
 18 the photo album, saying, Have I seen this downloadable  
 19 before? So if that is the case, you can make a decision  
 20 based on that particular information.  
 21 Q. Did you find that the Webwasher product combined these  
 22 two types of functionality in its product?  
 23 A. Yes, it obviously does.  
 24 Q. Based on your review of the source code and the  
 25 appliance and the documentation in this case, do you have an

Vigna - direct

1 opinion as to whether it infringes Claim 24 of the '194  
 2 patent?  
 3 A. Yes, it does.  
 4 Q. Claim 25 is just a method of Claim 24 where the known  
 5 downloadable is hostile.  
 6 Did you form an opinion as to Claim 25 in this  
 7 case?  
 8 A. Yes. This is very similar. You can bring again the  
 9 virus scanning technique, where, in virus scanning, the  
 10 comparison is done with hostile known downloadable. That is  
 11 a definition of a virus signature, something that  
 12 characterizes a known malicious downloadable.  
 13 Q. And did you form an opinion as to whether the  
 14 Webwasher infringed Claim 25 based on your review of the  
 15 source code, the appliance, itself, and the documents in  
 16 this case?  
 17 A. Yes, and it infringes.  
 18 Q. Claim 26, the method of claim 24 wherein the known  
 19 downloadable is non-hostile. Did you form an opinion as to  
 20 Claim 26?  
 21 A. Yes, I did.  
 22 Q. What was your opinion?  
 23 A. My opinion is that the Webwasher product infringes  
 24 this particular claim because it has the mechanism to  
 25 compare a downloadable to an existing downloadable that is

388

Vigna - direct

1 non-hostile and analyzed before to determine if the  
 2 downloadable is to be allowed or not.  
 3 Q. Now, is there a term that is referred to as a "White  
 4 List"?  
 5 A. Yes. Actually, in general, you have two general ways  
 6 to allow or block certain content. One is called White  
 7 Listing, one is called Black Listing. They are  
 8 complementary.  
 9 So, Black Listing can take many forms. It can  
 10 be a series of signatures, a series of URLs, a series of  
 11 IDs, a series, even, of just types of downloadables. But  
 12 you say whenever something is in the Black List, it has to  
 13 be blocked; while, when something is in the White List, and  
 14 again, the White List can be a White List of downloadables,  
 15 of URLs, of certificates, you name it, but whenever a match  
 16 is found in the White List, then that is to be allowed.  
 17 Of course, this, too, should have no  
 18 intersection, so there is no element that is both in a White  
 19 List or a Black List. And there are things that are neither  
 20 in one or the other, and, therefore, you have to analyze  
 21 them.  
 22 Q. And let's go to the user manual, PTX-153. This is  
 23 3-57, Page 3-57. You will see that the bottom half of that  
 24 page, we are talking about White Listing?  
 25 A. Yes.

Vigna - direct

Vigna - direct

1 Q. Does that support your opinion as to Claim 26?

2 A. Exactly. So this is, for example, a mechanism to  
3 identify that a downloadable is similar to a known White  
4 Listed -- not similar -- is identical to a known White  
5 Listed downloadable and therefore can be allowed in. It's  
6 been described as trusted.

7 Q. Do you have an opinion as to whether, based on your  
8 review of the source code, the appliance in this case, and  
9 the documents that you reviewed, whether Claim 26 is  
10 infringed by the Webwasher product?

11 A. Yes, it does.

12 Q. Would you go to Claim 27. The claim requires a method  
13 of Claim 24, further comprising the step of including a  
14 previously received downloadable as a known downloadable.

15 Do you have an opinion as to whether the  
16 Webwasher product infringes Claim 27?

17 A. Yes. And my opinion is that it infringes.

18 Q. And what is Claim 27 talking about here?

19 A. So, in this particular case, and it's something that I  
20 mentioned before, the comparison is done not just with any  
21 known downloadable but something that has been downloaded  
22 before.

23 So this is a very common technique that is  
24 called "Cache-ing," where you want to make sure that if you  
25 already saw something, for example, a web page, you will not

1 behaviors, and save it in a Cache, identifying uniquely the  
2 type of downloadable that generated that profile.

3 So when a new downloadable is received, before  
4 starting the analysis, an ID is generated from the  
5 downloadable, compare to what it said, and it says, Okay,  
6 did I already see this? And if this is the case, instead of  
7 redoing the work twice, the save security profile is  
8 extracted and used as a basis to determine through the  
9 security policy if the downloadable has to be allowed or  
10 not.

11 Q. Based on your review of the source code and the  
12 appliance and the documents in this case, did you form an  
13 opinion as to whether the Webwasher product infringes Claim  
14 27 of the '194 patent?

15 A. Yes.

16 Q. What is that opinion?

17 A. That it infringes.

18 Q. We will go to Claim 28, which is another dependent  
19 claim. This is the claim where the security policy  
20 identifies a downloadable to be blocked per administrative  
21 override. Do you see that?

22 A. Yes.

23 Q. Did you form an opinion as to whether the Webwasher  
24 product infringed Claim 28?

25 A. Yes, I think it infringes.

390

Vigna - direct

Vigna - direct

1 download it again.

2 In this particular case, there is a mechanism so  
3 that a downloadable this time, which is something different,  
4 is identified as seen before. And, therefore, it can be --  
5 it doesn't need to be analyzed again. This is done, as we  
6 will see, by deriving IDs and comparing specific IDs.

7 Q. Let me show you PTX-12. This is the step-by-step  
8 guide once again. If you turn to Page 30 of this, the very  
9 top, it talks about the Proactive Scanning Cache.

10 Is this what you are talking about when you are  
11 talking about "Cache-ing"?

12 A. Yes, exactly.

13 Q. Would you describe what is going on here?

14 A. Yes. So the Proactive Scanning Cache described here  
15 is to maintain in memory or accessible, this is accessible,  
16 the security profile derived for a number of recently seen  
17 downloadables, because, as described here, oftentimes there  
18 are malware outbreaks. And you sometimes notice, less and  
19 less, but once upon a time, you get, you know, 25 "Melissa"  
20 e-mails in your mailbox. So there is a few days where there  
21 is a storm of this malware going into your mailbox or being  
22 transferred over the Internet. And, so, the gateway has to  
23 process many times the same thing.

24 So the idea here is to analyze it once, derive  
25 the security profile, so the list of possibly dangerous

392

1 Q. Is this a type of Black Listing?

2 A. That is exactly what it is. So there is some -- a  
3 list of no malicious downloadables that have to be blocked  
4 because they are known to be malicious. So there is no need  
5 to perform the complete analysis.

6 Q. If we go to the user manual, PTX-153, is this talking  
7 about what you were talking about, the Black Listing?

8 A. Yes. For example, this is based on the media type, so  
9 the type of downloadable.

10 Q. What is it talking about when it says "Per  
11 administrative override" in the claim?

12 A. Administrative override is sort of a technical term to  
13 say, I want this particular condition to overrule anything  
14 else. So even though I would analyze this downloadable, I  
15 would find it okay, I want to override the possible outcome,  
16 say, Okay, whenever I see this particular type, for example,  
17 in this case of downloadable, I want it blocked.

18 So it's sort of like other writing, the normal  
19 flow of analysis, because you already know that those types  
20 of known downloadables or downloadables Black Listed in some  
21 way have to be blocked.

22 Q. And based on your review of the source code, the  
23 appliance, and the documents in this case, did you form an  
24 opinion as to whether the Webwasher infringes Claim 28 of  
25 this type of Black Listing?

Vigna - direct

Vigna - direct

1 A. Yes. In my opinion, it infringes.

2 THE COURT: Ladies and gentlemen, we will take  
3 our lunch break.

4 (Jury leaves courtroom at 12:57 p.m.)

5 (Luncheon recess taken.)

6 THE COURT: Ms. Walker.

7 MR. ANDRE: Your Honor, we would like to clear  
8 the courtroom. The parties have agreed to step out. Should  
9 we go into that now?

10 THE COURT: Is it the request of the parties  
11 that this portion of the record -- what is your request?

12 MR. SCHUTZ: It is the source code, it is going  
13 to be displayed on the screen.

14 THE COURT: With regard to the record, what is  
15 your request?

16 MR. ANDRE: We don't need to do anything about  
17 the record. The record will be fine.

18 (Jury enters courtroom 2:02.)

19 THE COURT: Ladies and gentlemen, please take  
20 your seats. We will continue on.

21 Is it the desire of the parties to seal the  
22 courtroom?

23 MR. ANDRE: I think we can police it ourselves,  
24 Your Honor.

25 THE COURT: All right. I am prepared to have

1 mechanisms allow the Webwasher -- allow the user of the

2 Webwasher appliance to allow a downloadable per

3 administrative override. Therefore, it infringes the claim.

4 Q. Based on your view of the source code and the

5 appliance and the documents in this case, did you form an

6 opinion as to whether Claim 29 is infringed by the Webwasher

7 product?

8 A. Yes, it infringes.

9 Q. Then the final dependent claim is Claim 30. This is  
10 the method of Claim 1, comprising the step of informing a  
11 user upon detection of a security policy violation.

12 Did you form an opinion as to Claim 30 of the  
13 '194 patent?

14 A. Yes. And my opinion is that it infringes.

15 Q. Can we see PTX-11.

16 Page 6. At the top, it has that box that came  
17 up with the appliance, "Request blocked by ProActive  
18 scanning"?

19 A. Correct. That is the same message that we showed  
20 before when operating the Webwasher product that shows that  
21 the user is informed of the fact that the downloadable has  
22 been blocked.

23 Q. Based on your review of the source code, the  
24 appliance, and the documents in this case, is it your  
25 opinion that Claim 30 of the '194 patent is infringed?

394

Vigna - direct

1 you do that.

2 MR. SCHUTZ: We will keep an eye out.

3 MR. ANDRE: Your Honor, we are going to be  
4 looking at source code. I believe our technical person, the  
5 computer is not booted up yet. Can he step up there real  
6 quick to make sure it's working.

7 THE COURT: Sure.

8 (Pause.)

9 THE WITNESS: We have a little technical issue.

10 When the computer is rebooted, after a certain amount of  
11 time, it automatically starts a check on the file system.

12 So /1 in the amount of 20 times, without being checked.

13 They are forcing a check. We are 51.4 percent through it.

14 It's normal unique maintenance and we cannot do anything  
15 about it. We are at 55 now. Getting better.

16 The last 50 percent was really fast, apparently.

17 BY MR. ANDRE:

18 Q. Before we get into the source code, let me ask two  
19 more of the dependent claims very quickly.

20 Claim 29 of the '194 patent is a dependent claim  
21 wherein the security policy identifies a downloadable to be  
22 allowed per administrative override.

23 Did you form a basis about whether the Webwasher  
24 appliance provides that type of administrative override?

25 A. Yes. As we have seen before, the White Listing

396

Vigna - direct

1 A. Yes, it infringes the patent.

2 Q. Dr. Vigna, the next independent claim is independent  
3 Claim 32, which, instead of having a method, is a system of  
4 execution by a server that serves as a gateway to a client  
5 and the system comprising.

6 What is the difference between this type of  
7 claim and the method claim of Claim 1?

8 A. Well, one is -- I cannot see it on my screen. I think  
9 I can almost read the board.

10 In the original one, it is talking about a  
11 method. This particular case is talking about the actual  
12 execution by an application.

13 Q. If you look at the first element, Element A, a  
14 security policy, you have gone over that in some detail here  
15 today?

16 A. Yes.

17 Q. Is it your opinion that the Webwasher has a security  
18 policy?

19 A. Definitely, yes.

20 Q. Is that based upon the information that you reviewed  
21 for your opinion?

22 A. Yes, from the information, the documentation, the  
23 appliance, the knowledge of the appliance, and this is  
24 obvious, source code.

25 Q. Could you just get into the source code and show us



Vigna - direct

1 what a security policy looks like and actually walk us  
2 through some of the elements of the source code?  
3 A. Absolutely. Here we have to get a little technical,  
4 so you have to bear with me. It is not really easy to  
5 discuss this. But I will try to do my best to make the jury  
6 understand what I am talking about.

7 Here, as you can see, this terminal window  
8 accesses the source code of the appliance. In this  
9 particular case, Webwasher --

10 Q. Before you start, what is source code?

11 A. Applications, computer programs are executed by a  
12 computer. But we have a hard time giving the instruction  
13 directly to the processor in your computer because these  
14 instructions are very, very simple and very small. They do  
15 very incredibly simple, stupid operations, like add one to a  
16 number, subtract one from a number. And building a complex  
17 application like Word, by specifying this small instruction,  
18 would be a daunting task. I would prefer water boarding to  
19 that.

20 So what we came out, after years and years of  
21 software engineering, would be high-level languages. These  
22 are languages that are much higher level. That means that  
23 we can tell the computer something like, Open this file.  
24 And instead of using this very, very small, simple  
25 instruction, we can give one high-level instruction that

398

Vigna - direct

1 will tell the computer to do something that we can relate  
2 to, like open a file, write to a file, save to disk, and so  
3 forth.

4 Now, of course, we like to talk to the computer  
5 at this high-level language that we understand. But the  
6 computer can only execute this very low-level operation. So  
7 there is a process called Compilation that takes what we  
8 call the source code, that means our high level description  
9 of what the program should do, and transforms it into this  
10 small, simple, stupid level instruction that the CPU, the  
11 processor of a computer, can understand, so that we don't  
12 have to deal with this low level stuff and we can  
13 concentrate on the high level stuff.

14 So the source code can be of different types.  
15 So there are different languages. Like there are languages  
16 that we speak, French, Italian, English, and so forth.  
17 There are languages like C, C plus plus, Pasquale, Java,  
18 JavaScript, and so forth that they all do pretty much the  
19 same thing. It's just a way to describe what the computer  
20 should do.

21 I usually associate a program with one of those  
22 books, and I don't know if any of you ever looked at one of  
23 those, where you have chapter, at the end of the chapter,  
24 you can take door No. 1 or door No. 2. So the books are  
25 called "Interactive Books." And you can take different

Vigna - direct

1 paths throughout the book. So you make choices.

2 A program is more or less the same thing. There  
3 is a general script that has to be followed. But you can  
4 make decisions at a certain point. So if the user clicks on  
5 this button, then do this particular thing, that would be  
6 your open the door A versus open the door B in your book.

7 What I am here to explain is that the source  
8 code is used to describe an algorithm. An algorithm is a  
9 very weird word to describe a process. So the classic  
10 algorithm is like put a coin in the coin machine. Select  
11 with numbers the type of thing that you want to eat. Press  
12 the button. If the things comes out from below, take it  
13 out. That is a process. What I just described to you is an  
14 algorithm.

15 I can do the same thing with source code. I can  
16 say, Wait for user to put user name. Wait for user to put  
17 password. If user name and password are the correct one,  
18 then log in the user, and so forth. And I would do this in  
19 source code.

20 That makes a long story short.

21 What I am going to show you is the source code  
22 of one version of the Webwasher product. When you will see  
23 the code, it will be rather confusing. It is confusing for  
24 me. So it took me time to understand exactly what was going  
25 on. I will try to do my best to show you step by step the

400

Vigna - direct

1 algorithm, the process that this source code is  
2 implementing.

3 This is something that you probably can't  
4 understand. It is sort of weird. So if you don't  
5 understand, believe me, welcome to the club.

6 So it should give you a precise idea of what's  
7 going on for, you know, in certain particular situations.

8 So I won't be able to explain everything, but I  
9 hope to highlight the things that you want to understand.

10 Q. With that in mind, could you show us where the first  
11 element of Claim 32 of the security policy, where you find  
12 that in the source code?

13 A. Okay. For example, here is the source files. For  
14 example, there is a security policy -- can I give a little  
15 bit of context?

16 Q. Yes.

17 A. Getting to the security policy becomes sort of out of  
18 context without showing you what I am talking about. I am  
19 going to go into this mobile code filter directory. You can  
20 see, and now I am going to open a file, C filter mobile code  
21 dot CPP. CPP stands for C plus plus. So the extension of  
22 that file shows the particular type of language that is used  
23 in this application.

24 I am going to open an editor, emacs. Here we  
25 have the code we are talking about. You can see the author



Vigna - direct

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1 here is Cristoph, 2005, et cetera, et cetera.

2 Here, we are going to go to a particular method  
3 here called run heuristics filter. This is a particular  
4 operation. You can see up here. You can see that this, you  
5 know, for you, probably this is incomprehensible and very  
6 low level, but with respect to the instruction that the  
7 actual CPU uses, this is very high level.

8 So, for example, here, do you remember in the  
9 logs that I showed from the Webwasher application, at a  
10 certain point, it was aligned within the log saying,  
11 Proactive scanning starting. And here you have exactly the  
12 log, the function that says, Write to the filter log,  
13 proactive scanning is starting. And this is a side effect  
14 will create that line of log.

15 Here, for example, you can see, is analyzing the  
16 mobile code type. And say, Oh, if it's a Window 32  
17 application, then I am going to use a certain parser to find  
18 out where the functions are. If it is a Java application, I  
19 am going to use a different parser. If it is a JavaScript,  
20 I am going to use another different parser. That is to  
21 abstract those functions. Remember I said the parser will  
22 abstract those functions.

23 It goes on and on. At a certain point -- I am  
24 sorry, I have to jump a little ahead -- there is, at a  
25 certain point here, for example, I have to find exactly

1 what is done.

2 After that, it will be decided if the  
3 downloadable has to be rejected or not. So we have to look,  
4 for example, to this evaluate all composites function.

5 For example, in this case, there are a bunch of  
6 rules that will be applied. And here it will decide, for  
7 example, if -- it will decide if the categories are applied  
8 to this -- we can all make mistakes. Here it will go  
9 through the rule and get the composite rule, apply it, and  
10 if that rule is actually matched, the rule will be  
11 identified and written to a particular file -- sorry,  
12 written to the log file, and the actual action that has to  
13 be operated whenever this is matched is chosen.

14 In particular, you can see -- let me find  
15 exactly where that thing is in my code note. I did notes  
16 because keeping this in mind would be crazy.

17 That would be here. This is to find number of  
18 typical actions that will be associated with the outcome.  
19 So, for example, block and notify the sender, block and  
20 notify the sender and the recipient or the recipient,  
21 depending on what type of action has been decided on that  
22 particular operation.

23 Now, if we want to see how the functions are  
24 actually mapped to the category of behavior, we have to go  
25 see, for example, this file. This file contains actually

402

Vigna - direct

1 where it is, it is difficult to find out, for example, here,  
2 here, after it decided what type of executable we are  
3 talking about, here it calculates the hash of downloadable,  
4 and we will see in a second that this is important, and then  
5 the cache is used to find out if this particular  
6 downloadable has been seen before, if it is in the cache.  
7 And if this is the case, then that particular profile is  
8 used.

9 Otherwise, we will go to here. And we will  
10 decide to evaluate, okay, this particular downloadable. So  
11 evaluate is actually a reference to another file that I am  
12 going to open right now. You can see it is not super easy  
13 to follow, but bear with me another second. I am going to  
14 get this.

15 So, in a way, this is sort of an important part  
16 of the process, where the parser that has been chosen for  
17 that particular type of downloadable is called to abstract  
18 the functions or the parameters, the FWrite, FRead that I  
19 talked about there. And then after that, there is this  
20 evaluate all atomics on indicator and evaluate all  
21 composites on context. These are those heuristic rules that  
22 are used to take this basic function and transform them into  
23 a list of possible malicious behavior.

24 So I know that it's difficult to say, like, Hey,  
25 you know, it is obvious from there, but that's technically

404

Vigna - direct

1 the rules that take those low-level functions that I showed  
2 you before and define the categories that I described.

3 For example, let's go here. You can see there  
4 are four languages, such as JavaScript, Visual Basic, Visual  
5 Basic for Application. There is a function that when the  
6 function is called register read will be mapped in the  
7 category register read.

8 Or, for example, maybe more interesting, here in  
9 this particular case, if I have a function called eval, then  
10 we will map this to the behavior of code creation.

11 What you see here is an encoded version of those  
12 rules that take the low-level function and define categories  
13 of behavior. Of course, this is formatted to be  
14 understandable by a computer, by a program, and, therefore,  
15 is not very pretty to look at.

16 Q. Are these the rules that are used to identify the list  
17 of suspicious computer operations?

18 A. Correct.

19 Q. So with respect to the Claim 32, you are asking for a  
20 system to execute a server that serves as a gateway, you are  
21 talking about the Element 3 here that talks about a compiler  
22 coupled to the interface comparing downloadable security  
23 profile data pertaining to the downloadable?

24 A. Absolutely.

25 Q. The downloadable security profile data includes a list

Vigna - direct

1 of suspicious computer operations that may be attempted by  
 2 the downloadable against the security policy?  
 3 A. Correct.  
 4 Q. When you say a "comparator," I guess is the word, what  
 5 is a comparator?  
 6 A. A comparator is something that compares. So we get  
 7 this list of possible behavior, and we compare it to  
 8 something that says, If you do this, then you should block.  
 9 So it's a comparison between a security policy  
 10 and a list of actions that the downloadable might perform.  
 11 And whenever a match is found, the corresponding action is  
 12 taken.  
 13 Q. So, based on your previous testimony regarding Claim  
 14 1, is it your opinion that the Webwasher system has a  
 15 security policy?  
 16 A. Absolutely.  
 17 Q. Is it based on the same information you base that  
 18 opinion upon in Claim 1?  
 19 A. Yes.  
 20 Q. The second element here, the B element, we talked  
 21 about an interface for receiving an incoming downloadable  
 22 addressed to a client, what is it referring to when it says  
 23 an "interface for receiving"?  
 24 A. An interface for receiving means that there is a means  
 25 through which a downloadable is received from the outside.

406

Vigna - direct

1 So it is clear that Webwasher operates at the gateway and is  
 2 an intermediary between a client and a server. That means  
 3 it has some means to receive the downloadable from a remote  
 4 server and to pass it down to the client. Therefore, it  
 5 clearly meets the claim by construction.  
 6 Also, it is easy to find in the code a  
 7 description of, for example, the setup of the ports used by  
 8 the proxy that will show exactly how this the interface to  
 9 receive the downloadable can be configured.  
 10 Q. Is it your opinion that the B element of Claim 32,  
 11 where it says, Interface for receiving an incoming  
 12 downloadable addressed to a client, is that infringed by the  
 13 Webwasher product?  
 14 A. Yes.  
 15 Q. Then we get to the C element, which is the comparator  
 16 which you just talked about. It's coupled to the interface.  
 17 Is the comparator in this case coupled to the  
 18 interface?  
 19 A. Yes. I mean, the interface is used to retrieve the  
 20 downloadable. And then some processing is made to abstract  
 21 the list of behavior, which is then compared to the security  
 22 policy to make the final decision.  
 23 Q. And is that something that -- I was going to say, is  
 24 it very hard to find the code? It would take some time to  
 25 get there? Could you show that in a code, the interface for

Vigna - direct

1 receiving the downloadable?  
 2 A. I think I can find something.  
 3 Q. I am sorry. The comparator coupled to the interface  
 4 is what I was looking for?  
 5 A. The comparator coupled to the interface is what I just  
 6 showed, where the comparator is this evaluate, composite,  
 7 all composite function and evaluate all atomic.  
 8 I can show you again. I think it's right here.  
 9 For example, this function -- by the way,  
 10 evaluate all atomics on indicator, it is going to be used to  
 11 evaluate the functions and abstract the high-level behavior  
 12 and determine what type of action is going to be taken.  
 13 At a certain point, there is going to be -- I  
 14 will show you in the code -- so this is done to -- for  
 15 example, in the code, these are the category of behavior,  
 16 you can see here, you know, no category, File Read, File  
 17 Write, Registry Read, Registry Write. These are the  
 18 categories that are extracted, as represented in the code.  
 19 And you can see that it is, you know, sort of very low  
 20 level.  
 21 At the very end, there is -- let me go back to  
 22 it.  
 23 Okay. At this point, for example, there is this  
 24 function handle action, which is actually what will define  
 25 the action associated with the security policy.

408

Vigna - direct

1 So, at this point, the downloadable has been  
 2 analyzed, the categories of behavior have been determined.  
 3 So the type of action that will be performed. And this is  
 4 how the actual action is executed. You can see here, here,  
 5 here and so forth.  
 6 Q. When you say the "category of behavior," are you  
 7 referring to the suspicious computer operations?  
 8 A. Correct.  
 9 Q. That's the File Write and the File Read and the type  
 10 of operations that you demonstrated earlier?  
 11 A. Absolutely.  
 12 Q. The issue that counsel brought up in his opening was  
 13 that the downloadable security profile data includes a list  
 14 of suspicious computer operations.  
 15 Does the Webwasher include the downloadable  
 16 security profile that includes the list of suspicious  
 17 computer operations and can you prove that in the code?  
 18 A. Yes.  
 19 Q. Could you please do so?  
 20 A. Yes. In the code, as I showed before, this is how the  
 21 list of computer operations are defined. So this is how,  
 22 after using the parser, how these categories are represented  
 23 and mapped in the appliance.  
 24 So there is a loop that goes through the  
 25 downloadable, extracts the function, depending on the type

Vigna - direct

1 of downloadable, and then says, If this function is called a  
2 certain name, then map it to Code Loading.  
3 If you remember, this is the exact, for example,  
4 in this case, if I have a function that is equal to eval,  
5 you can see here that it will be mapped to the category  
6 "Code Creation."  
7 So these are the rules that are used to perform  
8 the mapping in the code.  
9 Q. Do you have an opinion whether or not the Webwasher  
10 product infringes the C Element of the comparator coupled to  
11 the interface for comparing downloadable security profile  
12 data pertaining to the downloadable, the downloadable  
13 security profile data includes a list of suspicious computer  
14 operations that may be attempted by the downloadable,  
15 against the security policy to determine if the security  
16 policy has been violated?  
17 A. Absolutely, I have an opinion. And the opinion is  
18 that it infringes the claim.  
19 Q. Is that based upon your review of the source code, the  
20 appliance, and the documents in this case?  
21 A. Correct.  
22 Q. Then the final element in the independent Claim 32 is  
23 a logical engine preventing execution of the downloadable by  
24 the client if the security policy has been violated.  
25 First of all, when we are talking about

410

Vigna - direct

1 computers, what are engines? It's not something you put in  
2 a car, obviously. What is an engine?  
3 A. This is something that is often used in computer  
4 science. The term "engine" is some kind of component whose  
5 task is to operate some kind of analysis or transformation.  
6 Sometimes it is referred to as an engine because it has an  
7 active task to perform. Some people refer to it as an  
8 engine.  
9 Like, for example, I used in my research of an  
10 intrusion detection engine, as the part that is responsible,  
11 for example, to actually analyze the traffic and detect  
12 intruders. That is one possible use.  
13 Q. What is a logical engine?  
14 A. A logical engine would be something that applies some  
15 kind of logic rules to perform analysis that will determine  
16 certain properties of a downloadable.  
17 Q. Do you have an opinion as to whether the system used  
18 in the Webwasher product uses a logical engine for  
19 preventing execution of the downloadable by the client if  
20 the security policy has been violated?  
21 A. Yes. I think that the Webwasher appliance actually  
22 infringes the patent because it has this active component,  
23 it does exactly that.  
24 Q. So, based on your review of the source code, the  
25 appliance, and all the documents that you have looked at,

Vigna - direct

1 which are quite a bit of them, do you have an opinion as to  
2 whether Claim 32 of the '194 patent is infringed?  
3 A. Yes. And my opinion is that it infringes.  
4 Q. Claims 33, 34, 35 and 36 are dependent upon Claim 32.  
5 They add in the element of having a Java applet, an ActiveX  
6 control, a JavaScript and Visual Basic script.  
7 Do you have an opinion of whether Claim 33 of  
8 the '194 patent is infringed by the Webwasher product?  
9 A. Yes, and I think it is.  
10 Q. Do you have an opinion as to whether claim 34 of the  
11 '194 patent is infringed by the Webwasher product?  
12 A. Yes, I think it is.  
13 Q. Do you have an opinion as to whether Claim 35 is  
14 infringed by the Webwasher?  
15 A. I think it is.  
16 Q. And how about Claim 36?  
17 A. Same, I think it is.  
18 Q. And is your opinion based upon the documents you  
19 looked at earlier, showing the Java, applets, the ActiveX,  
20 the JavaScript and the Visual Basic, and the source code you  
21 have shown us here today?  
22 A. Correct. You can see in the code, we are talking  
23 about VBScript, JavaScript, and so forth. So in this set of  
24 rules you will find all different kinds of executables, as  
25 listed there.

412

Vigna - direct

1 Q. Now we are in the final claim of the '194 patent.  
2 This is Claim 65. This relates to a computer-readable  
3 storage medium storing program code for causing a server  
4 that serves as a gateway to a client to perform the steps  
5 of, and then it lists A, B and C steps. I want to talk  
6 first about what is computer-readable storage medium storing  
7 program code? What is that?  
8 A. This is simply saying that there is a disk on the  
9 computer that contains the code that would do this  
10 operation. So usually what you get on this disk is the  
11 compiled version of what I just showed here.  
12 Q. In counsel's opening statement, they said, for  
13 example, the CyberGuard TSP product has the code, does the  
14 function. Even if it didn't function, would it be your  
15 opinion a product that has all the steps of 65, would that  
16 still infringe if it had the code?  
17 A. It is my understanding of this issue that if the code  
18 is there, even though it might not be active for a certain  
19 class of user or whatever, that is infringing the patent,  
20 because it's stored on the machine, and therefore, it is  
21 actually matching that particular claim.  
22 Q. And looking at the first element of Claim 32, Claim  
23 65, receiving incoming downloadable addressed to a client,  
24 that is the same element that was in Claim 1. Correct?  
25 A. Correct.

# **EXHIBIT 1**

## **PART 2**

Vigna - direct

Vigna - direct

1 Q. Is it your opinion that it infringes?  
 2 A. I think it does, it infringes.  
 3 Q. Is that based on your view of the source code and the  
 4 appliance and the documents?  
 5 A. Correct.  
 6 Q. Then the second, the B element here is comparing the  
 7 downloadable security profile data pertaining to the  
 8 downloadable against a security policy to determine if the  
 9 security policy has been violated?  
 10 A. Correct.  
 11 Q. Do you have an opinion if that element is infringed?  
 12 A. Yes. I think in a way, you know, I have already  
 13 demonstrated that this is actually infringing the patent,  
 14 Webwasher is infringing this particular claim.  
 15 Q. And is that based on the review of the source code,  
 16 the appliance, and the documents in this case?  
 17 A. Correct.  
 18 Q. Then the final element of Claim 65 is preventing  
 19 execution of the downloadable by the client if the security  
 20 policy has been violated.  
 21 Do you have an opinion as to whether that infringes or  
 22 not?  
 23 A. Yes, I do. And it infringes.  
 24 Q. Is it for the same reason that you articulated earlier  
 25 today?

1 element of Claim 65 literally infringes -- strike that.  
 2 Do you find that the Webwasher product literally  
 3 infringes every claim element of Claim 65?  
 4 A. Yes, I think so.  
 5 Q. At least does the Webwasher product perform  
 6 substantially the same function as that described in Claim  
 7 65?  
 8 A. Yes, it does.  
 9 Q. Does at least the Webwasher product perform  
 10 substantially the same way as in Claim 65?  
 11 A. Yes, it does.  
 12 Q. And at least does the Webwasher product yield the same  
 13 result as that which is claimed in Claim 65?  
 14 A. Yes, it does.  
 15 Q. Is that for every single element in Claim 65?  
 16 A. Yes.  
 17 Q. Thank you.  
 18 All right. So that's it for the '194 patent. I  
 19 would like to turn your attention to the '780 patent.  
 20 Dr. Vigna, could you just give a very brief  
 21 description of what is claimed in Claim 1 of the '780  
 22 patent?  
 23 A. Yes.  
 24 So in this patent, a method is disclosed to  
 25 compute a unique ID of a downloadable for md5, a

414

Vigna - direct

Vigna - direct

1 A. My opinion is based on what I showed before and on the  
 2 documents that I reviewed, the source code, and the use of  
 3 the appliance.  
 4 Q. With respect to Claim 32 -- sorry about that.  
 5 With respect to Claim 32, do you find that the  
 6 Webwasher product literally infringes every element of Claim  
 7 32?  
 8 A. Yes.  
 9 Q. Referring to the doctrine of equivalents, to the  
 10 extent it did not literally infringe, do you have an opinion  
 11 if it would at least, at least the Webwasher product would  
 12 perform substantially the same function as each and every  
 13 element of Claim 32?  
 14 A. Yes.  
 15 Q. And do you have an opinion as to whether the Webwasher  
 16 product performs in substantially the same way as Claim 32?  
 17 A. Yes, it does.  
 18 Q. Does the Webwasher product yield at least the same  
 19 result?  
 20 A. Yes, it does.  
 21 Q. What do you base that opinion on?  
 22 A. I base that opinion on the source code of the  
 23 application, the use of the appliance, and the documentation  
 24 that I reviewed.  
 25 Q. With respect to Claim 65, do you find that every

1 downloadable itself. The idea is that is that a  
 2 downloadable is retrieved and an ID is computed. But the  
 3 downloadable also references other components. Also  
 4 together with the first component, other components are also  
 5 analyzed and an ID is generated.  
 6 This ID is then used to identify or to determine  
 7 if a downloadable has been seen before. And the way in  
 8 which this ID is created is by performing a hash function.  
 9 Here I have to do a very short digression on  
 10 what a hash function is.  
 11 So, again, a hash function is, it's a way to  
 12 take an object and generate in a secure way a unique idea.  
 13 A secure way means that if two objects are different, then  
 14 they will have different IDs. And it is very hard  
 15 computationally, given an ID, to generate another object  
 16 that will have the same ID. You have to sort of believe me  
 17 here because there are actually pretty complex mathematics  
 18 behind these type of functions. Here we are not really  
 19 discussing these functions working or not. They are used in  
 20 computer science and programs every day.  
 21 One, for example, of the most known functions is  
 22 called md5. Shawan (phonetic) is another example of such  
 23 type of functions. They are used to generate unique IDs for  
 24 these downloadables.  
 25 Now, I am hiding some little problems with these

416



Vigna - direct

1 functions. They are completely irrelevant to the effect of  
 2 this patent. But the main concept is that this hash  
 3 function is applied to these downloadables to generate these  
 4 IDs. So whenever a new downloadable is received, the hash  
 5 function can be applied again, the ID generated, and  
 6 compared to IDs that haven't been seen before. And if the  
 7 two IDs match, that means that the same downloadable has  
 8 been seen again.

9 It's like putting a label on people. So if I  
 10 wanted to generate a hash on the people in this room, for  
 11 example, I will just generate a label, and I would put your  
 12 name on it. This wouldn't be a good hash, because maybe  
 13 some here have the same name. So I probably would use your  
 14 first name, last name, and Social Security number. And I  
 15 could be pretty sure that nobody here has the same ID.

16 So if somebody comes and I saw that person, I  
 17 say, hey, that is the ID I already saw and I don't have to  
 18 go through the identification again. I just know who you  
 19 are.

20 Q. Turning to the elements of Claim 1 of the '780 patent,  
 21 the first element is obtaining a downloadable that includes  
 22 one or more references to software components required to be  
 23 executed by the downloadable.

24 What is that element referring to?

25 A. This is downloading, downloadable, to obtaining it.

418

Vigna - direct

1 And this downloadable might have one or more references to  
 2 other downloadables. This can happen in different ways.

3 For example, a Java program can reference  
 4 another Java program, actually, I would say, another Java  
 5 class. So at a certain point in the execution of this  
 6 program it might be the case that this particular  
 7 downloadable says, hey, I need another piece of myself. And  
 8 this piece will be also downloaded, and operated on  
 9 subsequently.

10 Q. Let me show you PTX-11. I believe it's Page 5. If  
 11 you look at the bullet point right here, what is that  
 12 showing there?

13 A. This shows that there are behavioral heuristics and  
 14 policy options available for different types of  
 15 downloadables, such as executables, ActiveX controls and  
 16 other types of downloadables, such as Java applets and  
 17 applications and so on.

18 Q. Do Java applets have software components?

19 A. Yes. Java applets can either come in a package  
 20 version where all the needed components are one single  
 21 group, or can be downloaded on command during execution. So  
 22 our first downloadable will be executed. And as this applet  
 23 gets executed, more elements will be requested and  
 24 downloaded.

25 Q. Are you able to -- I am not sure you can do this on

Vigna - direct

1 the source code. Are you able to demonstrate on the source  
 2 code the first element, Element A of Claim 1?

3 A. I haven't looked into it. So it would take me some  
 4 time to do that.

5 Q. Let's see what the document is.

6 Based on your review of the documents, and the  
 7 testimony in this case, and the source code and the  
 8 appliance, do you have an opinion as to whether the  
 9 Webwasher product obtains a downloadable that includes one  
 10 or more references to software components required to be  
 11 executed by the downloadable?

12 A. Yes. I think it does.

13 Q. What do you base that opinion on?

14 A. On the use of the appliance, the documents I reviewed.

15 Q. Now, the next step is a step called fetching at least  
 16 one software component identified by the one or more  
 17 references. We have heard a little bit about this earlier.  
 18 What is fetching?

19 A. Fetching, in my understanding, is, as the  
 20 downloadables are downloaded and executed, more pieces will  
 21 be requested. So fetching is, as somebody said I think  
 22 yesterday, a fancy word for go get it. So the applet is  
 23 executing in an environment, at a certain point it wants to  
 24 execute something else, so it will request another  
 25 component.

420

Vigna - direct

1 But guess what? The request from the client  
 2 will go through the Webwasher appliance and it will go to  
 3 the Internet, and before it can go back to the client will  
 4 be analyzed by the Webwasher appliance again, which probably  
 5 will generate another ID and identify, this is a known or  
 6 previously visited downloadable.

7 Q. Did you see or hear any testimony regarding fetching  
 8 by the Webwasher product?

9 A. Yes. I mean, fetching in this case is, you know, is  
 10 this new downloadable will be requested as the first one has  
 11 been fetched by the Webwasher product. Also, all subsequent  
 12 ones will be fetched as well whenever they are requested.

13 Q. Did you form an opinion as to whether the Webwasher  
 14 product infringed the second element of fetching at least  
 15 one software component identified by the one or more  
 16 references?

17 A. Yes.

18 Q. What is your opinion?

19 A. I think it infringes.

20 Q. What is that opinion based upon?

21 A. It's based upon an analysis of the documents and the  
 22 operation of the Webwasher product.

23 Q. Now, the final element, the C element, is performing a  
 24 hashing function on the downloadable and the fetched  
 25 software component to generate a downloadable ID.

Vigna - direct

1 A. Yes.

2 Q. Did you form an opinion about the C element of Claim 1

3 of the '780 patent?

4 A. Yes. I looked at the code and I found exactly this

5 operation being performed. I can show you.

6 Q. Could you put us back in the code.

7 A. Here, for example, is what happens. You can see this

8 function called calculate hash. So whenever the

9 downloadable is received, this function is called to

10 actually compute this hashing function and arrive at an ID.

11 And this same ID is used to find in the cache something that

12 has been already classified.

13 In fact, the following message is, if this is

14 found, it says, retrieve classification from cache. That

15 means that this downloadable was already analyzed before,

16 and has been found.

17 To give you a little insight of how this

18 calculate hash is performed, we have to open a new file

19 called C mobile code cache dot cpp. This is the code of

20 that calculate hash. And you can see here this md5 hasher

21 that tells us that exactly the md5 hashing function is used

22 to calculate this ID.

23 So here you can see, this hasher dot final is

24 what will actually create the final hash for the

25 downloadable.

422

Vigna - direct

1 Q. Let me show you also a document, PTX-10. This is the,

2 one of the Webwasher mobile code filter detection and

3 classification of malicious mobile code. If you go to Page

4 19 of this, at the bottom, under Section 4.14, that last

5 paragraph, is that talking about the hashing function that

6 is in Element C as well?

7 A. Yes, it's talking about the cache-ing, which is based

8 on the hashing function. So what it is saying, if you look

9 at the second line, it says that it is uniquely accessible

10 through a hash of the code itself. We just saw in the code

11 how this hash is generated through the computation of an md5

12 check.

13 I can also show on the appliance, if you put

14 this on, where the cache is.

15 Q. If you would switch over to the appliance instead of

16 the source code.

17 A. It should be up? No.

18 Okay. Much better.

19 So here you have something that is called

20 cache-ing up here. Actually, wrong cache-ing. You have to

21 go to anti-malware. And we have to look at the proactive

22 scanning cache, this down here.

23 And here, you see, it says temporarily stores

24 the classification of mobile code to accelerate the

25 processing of consecutive requests.

Vigna - direct

1 So in this particular case, we say that so far,

2 we had 48 different samples that have been cached.

3 I can, for example, ask to clear completely the

4 cache. So almost immediately, it will download other

5 downloadables, and all the ones that are referenced. And

6 you will have 34 downloadables because there could be

7 different images, objects, and so forth that are

8 downloadable -- that are downloaded automatically from the

9 interface itself.

10 So if you look at this number 34, if now I put

11 on the hat of the user, and I go, for example, to test your

12 security installation, and I download, for example, this

13 Clear Beam, this is blocked, but what we will see here,

14 actually now we have one more downloadable, we had 34, now

15 we have 35, because Clear Beam has been downloaded as well.

16 So you can see, whenever this happened, whatever

17 goes through, the hash gets computed and the particular

18 classification is stored in a cache using as an index the

19 md5 hash of that particular downloadable.

20 Q. And the function you are just describing and what is

21 disclosed in the documents, does that infringe Element C of

22 performing a hashing function on the downloadable in the

23 fetched software components to generate a downloadable ID?

24 A. Correct.

25 Q. Do you have an opinion as to whether the Webwasher

424

Vigna - direct

1 product infringes that element?

2 A. It is my opinion that it does.

3 Q. Do you base your opinion on the availability of the

4 source code, the Webwasher appliance and the documents that

5 you have reviewed in this case?

6 A. Correct.

7 Q. All the elements are checked on Claim 1. Do you

8 believe that the Webwasher product literally infringes Claim

9 1 of the '780 patent?

10 A. Yes, I think so.

11 Q. You now, you found that every element of Claim 1 in

12 Webwasher is literally infringed. Is that your opinion?

13 A. Yes, that is my opinion.

14 Q. Did you find at the very least the Webwasher product

15 contains an equivalent of every element of Claim 1?

16 A. I do believe that.

17 Q. Specifically, at the very least, does the Webwasher

18 product perform the same function as Claim 1 of the '780

19 patent?

20 A. Yes.

21 Q. And each and every element?

22 A. Yes.

23 Q. At the very at least, does the Webwasher product

24 perform substantially in the same way in Claim 1 as the '780

25 patent, and the same element?

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Vigna - direct

1 A. Yes.

2 Q. Does the Webwasher product substantially in the same

3 way to get the same result in the claimed element?

4 A. Yes.

5 Q. We are going to go to the dependent claims of the '780

6 patent. Claim 2 is the method of Claim 1 wherein the

7 downloadable includes an applet.

8 Do you have an opinion as to whether Claim 2 of

9 the '780 patent is infringed?

10 A. Yes. By reviewing the code, the documentation, and

11 using the appliance, I can tell that this applies to

12 applets.

13 Q. And did you see any of the applets when you were

14 working with the code in this particular case?

15 A. Yes.

16 Q. So is it okay if I check Claim 2?

17 A. You can check.

18 Q. With respect to Claim 3, which is a method of Claim 1

19 where the downloadable includes an active software control,

20 do you have an opinion as to whether the Webwasher product

21 infringes Claim 3 of the '780 patent?

22 A. I do. My opinion is that it does infringe.

23 Q. What do you base that opinion upon?

24 A. On the analysis of the code, the documentation, and by

25 using the appliance.

1 infringe.

2 Q. Claim 5 requires that the downloadable include an HTML

3 code. What is an HTML code?

4 A. HTML is yet another language. It's called hyper-texted

5 markup language. And it is the language with which you

6 describe web pages. So every time, I would say 99.99

7 percent of the times you visit a website, you are looking at

8 HTML code. The difference is that the browser is able to

9 take HTML code and present it to you in a very pretty way.

10 But you can always, you know, go, and if you can

11 switch for a second to my appliance here, any time you can

12 go to view source, and here, you will see your HTML code.

13 So HTML code is this. But the interesting thing

14 is that HTML code per se, I just say, hey, write something

15 here, but can also, as you can see here, contain some code.

16 Specifically, VBScript or JavaScript code.

17 So HTML can be both just passive, pretty

18 printing code that shows beautiful tables and images, but

19 can also contain, like in this case, explicit code that

20 might execute specific actions. So it's a downloadable.

21 And, yes, I have an opinion that it does infringe.

22 Q. And the final claim, Claim 6, is where the

23 downloadable includes an application program. Do you have

24 an opinion as to whether Claim 6 is infringed by the

25 Webwasher product?

426

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1 Q. Is it okay to put a check in that box?

2 A. You can go ahead and put it.

3 Q. Dependent Claim 4 is the method of Claim 1 wherein the

4 downloadable includes a plug-in. What is a plug-in?

5 A. So, a plug-in is a generic term for something that

6 extends an existing application. Most of the time, you

7 know, if you talk about a plug-in in this context, you will

8 talk about a browser plug-in, which means different things

9 for different browsers.

10 For example, Microsoft Internet Explorer allows

11 a particular type of object called BHOs or browser helper

12 objects. Those are those that enter your browser and give

13 you all those fancy toolbars that allow you to do weird

14 stuff and searches and beautiful things, and sometimes not

15 so beautiful things.

16 For example, Firefox, a plug-in could be written

17 in JavaScript, so in a different language.

18 The main idea is that in this context, there is

19 some executable that arrives at the client and extends an

20 existing application.

21 Q. In your view of the source code and the appliance and

22 the documents in this case, do you have an opinion as to

23 whether the Webwasher product infringes Claim 4 of the '780

24 patent?

25 A. Yes, it does. I have an opinion, and it does

428

Vigna - direct

1 A. Yes. Actually, the clear beam dot exit that I just

2 downloaded and it was blocked by Webwasher was exactly one

3 of these application programs.

4 My opinion is it infringes.

5 Q. Is that based on your review of the source code, the

6 appliance and the documents?

7 A. Correct.

8 Q. With respect to the independent Claim 9 of the '780

9 patent, it is a system for generating a downloadable ID to

10 identify a downloadable comprising, this is a communications

11 engine for obtaining a downloadable that includes one or

12 more references to software components required to be

13 executed by the downloadable.

14 Could you describe what that's referring to?

15 A. This is sort of a very similar description -- sorry.

16 It is a description for a system that is very similar to

17 what we just saw.

18 So it's a communications engine. So active

19 components that communicate. That obtains the downloadable,

20 so it would be our Webwasher appliance. And as this

21 downloadable is executed and this downloadable has one or

22 more references to other components, also, these other

23 components are downloaded. And each of them, together, are

24 given an ID by means of a hash function. So in time, all

25 the further components that are downloaded together with the

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1 first one will all be marked, and for all of them, an ID  
 2 will be generated.  
 3 Q. You do you have an opinion as to whether the Webwasher  
 4 product infringes the first element of Claim 9?  
 5 A. Yes, by analyzing the source code, by using the  
 6 appliance, and by looking at the documentation, I have the  
 7 opinion that the Webwasher product infringes the patent, the  
 8 claim, I should say.  
 9 Q. And the second element requires an ID generator  
 10 coupled to the communications engine that fetches at least  
 11 one software component identified by the one or more  
 12 references, and for performing a hashing function on the  
 13 downloadable and the fetched software components to generate  
 14 a downloadable ID?  
 15 A. Yes, as I said before, this ID generator is used on  
 16 both the original downloadable and the new fetched software  
 17 component, could generate an ID for each of them.  
 18 Q. Do you have an opinion as to whether the Webwasher  
 19 product infringes the B element of Claim 9 of the '780  
 20 patent?  
 21 A. Yes, I have an opinion that is based on my analysis of  
 22 the source code, the documentation, and the use of the  
 23 appliance. My opinion is that it infringes.  
 24 Q. Do you have an opinion that the Webwasher product  
 25 literally infringes Claim 9 of the '780 patent?

430

Vigna - direct

1 A. Yes, I do. I think it infringes.  
 2 Q. Do you find at the very least the Webwasher product  
 3 contains an equivalent of every element of Claim 9?  
 4 A. Yes, I think it does.  
 5 Q. Specifically, at the very least, does the Webwasher  
 6 product perform substantially the same function as all the  
 7 elements of Claim 9?  
 8 A. Yes, I think it does.  
 9 Q. At the very least, does the Webwasher product perform  
 10 in substantially the same way as Claim 9?  
 11 A. Yes, I think it does.  
 12 Q. At the very least does the Webwasher product yield the  
 13 same result as that claimed in Claim 9?  
 14 A. It does.  
 15 Q. When we are talking about this doctrine of  
 16 equivalents, is it your opinion that there is infringement  
 17 of the doctrine of equivalents on all of the independent  
 18 claims based on at the very least the same materials that  
 19 you reviewed for your opinion on literal infringement?  
 20 A. Can you repeat that question?  
 21 Q. Yes. I butchered that one. Sorry.  
 22 When you are giving these doctrine of  
 23 equivalents opinions, are you basing these opinions on the  
 24 same material that you base your opinion on literal  
 25 infringement on?

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1 A. Yes. It was that easy.  
 2 THE COURT: Let's take our afternoon break.  
 3 (Jury leaves courtroom at 3:15 p.m.)  
 4 (Recess taken.)  
 5 THE COURT: Ms. Walker, bring the jury in.  
 6 (Jury enters courtroom at 3:33 p.m.)  
 7 THE COURT: All right, ladies and gentlemen.  
 8 Please be seated.  
 9 Mr. Andre.  
 10 MR. ANDRE: Thank you, Your Honor.  
 11 BY MR. ANDRE:  
 12 Q. Dr. Vigna, we had just concluded with Claim 9 of the  
 13 '780 patent. Claim 10 of the '780 patent requires the  
 14 downloadable include an applet, and Claim 11 includes an  
 15 active software control, 12, the downloadable includes a  
 16 plug-in, 13, the downloadable includes HTML code, and 14,  
 17 the downloadable includes an application program.  
 18 These were the same dependent elements that were  
 19 in the previous claim element, Claim 1. Do you recall that?  
 20 A. Yes.  
 21 Q. I won't go through each one of these. Do you believe  
 22 that the Webwasher product infringes Claim 10?  
 23 A. Yes. Based on my analysis of the documentation, the  
 24 source code, and the product itself, I do believe so.  
 25 Q. Do you believe that the Webwasher product infringes

432

Vigna - direct

1 Claim 11 of the '780 patent?  
 2 A. Yes, based on the same sources, I do believe it  
 3 infringes.  
 4 Q. Do you have an opinion as to whether the Webwasher  
 5 product infringes Claim 12 of the '780 patent?  
 6 A. Yes. I have an opinion, and my opinion is that it  
 7 infringes.  
 8 Q. Do you have an opinion as to whether the Webwasher  
 9 product infringes Claim 13 of the '780 patent?  
 10 A. Yes, my opinion is that it infringes.  
 11 Q. Does it infringe for the same reason that the previous  
 12 dependent claims infringe with the HTML that you showed on  
 13 the screen?  
 14 A. Correct, in all cases, my analysis of the  
 15 documentation, of the source code, and of the appliance  
 16 itself, shows that these are the type of downloadables that  
 17 Webwasher can go with.  
 18 Q. Finally, Claim 14, do you have an opinion as to  
 19 whether the Webwasher appliance, Webwasher product infringes  
 20 Claim 14 of the '780 patent?  
 21 A. Yes, I do believe so. It infringes.  
 22 Q. If we go to the last independent claim, or last  
 23 asserted independent claim of the '780 patent, Claim 18,  
 24 this is another claim that is claiming a computer-readable  
 25 storage medium storing program code for causing a computer



Vigna - direct

Vigna - direct

1 to perform the steps of, and then it lists out the steps.  
 2 I am not sure I asked you this earlier, so I  
 3 will ask you now. It talks about program code, not source  
 4 code. What is the difference?  
 5 A. Well, program code, as I explained before, are those  
 6 very simple low-level operations that the CPU can execute  
 7 directly. It is called program code or binary code.  
 8 Usually this is what is actually executed. It's called the  
 9 executable, binary executable, the program code. It is not  
 10 source code, but it is the result of compiling source code  
 11 into an executable.  
 12 Q. So based upon your inspection of the appliance, the  
 13 source code, and the documentation, were you able to  
 14 determine if the Webwasher product has program code?  
 15 A. Yes. It has program code. It is stored on a disk.  
 16 And it is executed. Even if it weren't executed, it is  
 17 stored on a disk in executable form. It does infringe the  
 18 patent.  
 19 Q. It doesn't matter if the program codes execute or not,  
 20 it is on the disk, it is your opinion it would infringe?  
 21 A. Correct.  
 22 Q. The first element of Claim 18 is obtaining a  
 23 downloadable that includes one or more references to  
 24 software components required to be executed by the  
 25 downloadable. That is the same as the A element in Claim 1.

1 element is infringed by the Webwasher product?  
 2 A. Yes. I have an opinion. And my opinion is that it  
 3 infringes.  
 4 Q. Is that opinion based on the same information that you  
 5 provided earlier with respect to Claim 1 in Element C?  
 6 A. That's correct, the analysis of the source code, the  
 7 appliance, and the documentation.  
 8 Q. Is it your opinion that Claim 18 of the '780 patent  
 9 literally infringes, is literally infringed by the Webwasher  
 10 product?  
 11 A. Yes. My opinion is that it does. So Webwasher does  
 12 infringe that particular claim.  
 13 Q. With respect to the doctrine of equivalents, do you  
 14 find that, at the very least, the Webwasher product contains  
 15 an equivalent of every element of Claim 18?  
 16 A. Yes.  
 17 Q. Specifically, at a the very least, does the Webwasher  
 18 product perform substantially the same function as every  
 19 element of Claim 18?  
 20 A. Yes, it does.  
 21 Q. At the very least, does the Webwasher product perform  
 22 in substantially the same way as every element in Claim 18?  
 23 A. Yes, it does.  
 24 Q. At the very least, does the Webwasher product yield  
 25 the same result as every element in Claim 18?

434

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1 Is that correct?  
 2 A. It is the same element, and the same explanation  
 3 applies.  
 4 Q. Do you have an opinion as to whether the element A in  
 5 Claim 18 is infringed by the Webwasher product?  
 6 A. I do have an opinion, and my opinion is that it  
 7 infringes.  
 8 Q. What is that opinion based upon?  
 9 A. It is based upon the analysis of the source code, the  
 10 appliance, and the documentation that I reviewed.  
 11 Q. And the second element requires fetching at least one  
 12 software component identified by the one or more references.  
 13 Do you have an opinion as to whether --  
 14 A. Yes, it is again executable, by reference to the  
 15 downloadables, the other downloadables it will be  
 16 downloadable, and together with the first one will be hashed  
 17 to produce an ID.  
 18 Q. And is your opinion based upon the same information  
 19 you relied on earlier for Claim 1 for the element that was  
 20 the same as this?  
 21 A. Correct.  
 22 Q. The final element of Claim 18 requires performing a  
 23 hashing function on the downloadable and the fetched  
 24 software components to generate a downloadable ID.  
 25 Do you have an opinion as to whether that

436

Vigna - direct

1 A. Yes, it does.  
 2 Q. Let's turn our attention to the third patent, the '822  
 3 patent. Would you remind us once again what the '822 patent  
 4 covers?  
 5 A. In a nutshell, this patent covers a method that  
 6 associates the downloadable with some code that is sent with  
 7 the downloadable to the client, so that some check can be  
 8 performed on the client's side to make sure that the  
 9 security policy enforced by the intermediary is enforced on  
 10 the client's side.  
 11 Q. We heard from one of the inventors of this patent  
 12 earlier today. He called it the sandboxing patent. Are you  
 13 familiar with that term?  
 14 A. Yes. Sandboxing is a term that is often used to  
 15 describe mechanisms that tend to interpose between a certain  
 16 component and the rest of the world. So it goes back to the  
 17 concept of protecting a certain environment.  
 18 So I am receiving this object from the outside  
 19 world. And I want to be able to confine or limit the type  
 20 of access that this component has with respect to my  
 21 environment.  
 22 So I can create a sandbox around it that will  
 23 allow me to check what type of operation this unknown  
 24 component is trying to invoke.  
 25 And according to my security policy, I can at



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1 run time examine if the type of operation is acceptable or  
 2 not. This is a sandboxing mechanism.  
 3 Q. Would it be safe to say a sandbox is simply a  
 4 protective environment?  
 5 A. It is a protective environment.  
 6 Q. Now, the first asserted claim in this patent is Claim  
 7 4. Now, Claim 4 has four elements. The first element, A,  
 8 it's a processor-based method, comprising receiving  
 9 downloadable information.  
 10 I think we have covered this extensively. But  
 11 does the Webwasher product receive downloadable information?  
 12 A. Yes. The Webwasher product does that, on behalf of  
 13 a client.  
 14 Q. Do you have an opinion as to whether the A element is  
 15 infringed by the Webwasher product?  
 16 A. Yes, I do. I think it infringed.  
 17 Q. What do you base that on?  
 18 A. Based on the analysis of the source code, the  
 19 documentation, and the use of the appliance.  
 20 Q. The second element is determining whether the  
 21 downloadable information includes executable code. Do you  
 22 see that element?  
 23 A. Yes.  
 24 Q. Do you understand what that is referring to?  
 25 A. Yes. So in this case whoever received the

438

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1 downloadable has to look at it and say, okay, is the code  
 2 contained in this component, this downloadable information  
 3 that I just received.  
 4 A classic example, I mean, there are certain  
 5 modules for which that would be obvious, like a program, of  
 6 course, it's code. A program is code. So that wouldn't be  
 7 a big surprise.  
 8 But, for example, when I show you the source  
 9 code of that web page that contains some JavaScript code,  
 10 that particular web page could have been a completely  
 11 passive page with just HTML code that per se does not  
 12 execute any application, or like in the case that I have  
 13 that is shown, the page contained inside some code, so you  
 14 want to be able to say, hey, this is not just a page. This  
 15 is a page that contains some executable code.  
 16 Q. And based on your review of the source code, the  
 17 appliance, and the documentation in this case, did you form  
 18 an opinion as to whether Element B of Claim 4 of the '822  
 19 patent was infringed by the Webwasher product?  
 20 A. Yes. By looking at both the source code, the  
 21 documentation, and the appliance, I can tell that that is  
 22 what happens.  
 23 Q. Now, the next element is causing mobile protection  
 24 code to be communicated to at least one information  
 25 destination of the downloadable information, if the

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1 downloadable information is determined to include executable  
 2 code.  
 3 Did you use the Court's claim construction in  
 4 forming your opinion on an information destination being the  
 5 client?  
 6 A. Yes, I did.  
 7 Q. What is mobile protection code?  
 8 A. This, actually, the verbiage of this particular claim  
 9 is a little, can be difficult to parse. But it's actually  
 10 very simple. Whenever a downloadable is received, and if,  
 11 for example, certain operations cannot be determined as safe  
 12 or unsafe, one might decide, well, I cannot make that  
 13 decision right now, so I am going to add to this  
 14 downloadable some additional mobile protection code. And I  
 15 will shift this to the client.  
 16 So in a way, I am postponing my decision on what  
 17 is to be considered good or bad.  
 18 So this additional mobile protection code is  
 19 something that gets communicated to the client together with  
 20 the original download so that whenever the download will  
 21 execute those functions about which we cannot really make a  
 22 decision, then the additional mobile protection code will  
 23 kick in and will allow us to make the decision at that very  
 24 moment, so dynamically.  
 25 If you remember the point I made exactly a few

440

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1 hours ago, when my mind was a lot fresher than this, it is  
 2 like the Desdemona that situation, where I know the script,  
 3 the kill by Othello. But I won't know until that thing  
 4 happens in the play. So I am sending this code so when that  
 5 event is going to happen, I can make that decision. I don't  
 6 have all the elements at the moment of the analysis to make  
 7 a yes or no decision.  
 8 Q. Did you form an opinion as to whether the C element in  
 9 Claim 4 was infringed by the Webwasher product?  
 10 A. Yes. I analyzed the source code, the documentation,  
 11 and the appliance. And I can show you, for example, on the  
 12 source code exactly what happens in one specific case.  
 13 So an interesting file.  
 14 Let's look at this file. As you see up here,  
 15 first of all, we have something that says potentially  
 16 hostile identifications. In this, there is something called  
 17 hostile markup code. If you remember, markup code, HTML is  
 18 the hyper-taxed markup language. In a way it is trying to  
 19 identify if the code contains something bad.  
 20 The script can be completely blocked, like, for  
 21 example, here, or, more interesting, there is this function,  
 22 inject hooks. You have to understand that sandboxing is  
 23 often implemented by a hooking function. So in order to  
 24 protect the environment, you have to create the sandbox. So  
 25 the sandbox is really sort of a trick that you play on the

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1 downloadable. So you put a hook, so that when the  
2 downloadable thinks it's calling, I am going to write on  
3 your registry or I am going to write to a file, the  
4 downloadable thinks it's going to write to a file. But  
5 actually you inject a different function and your function  
6 gets executed first. So you get to see, what file are you  
7 trying to write exactly? And if you agree that that file is  
8 okay to be written to, then you go ahead and you execute the  
9 original function.

10 So in a ways the sandbox is implemented by  
11 hijacking, by taking control of the function that the  
12 downloadable thinks it is going to execute.

13 It is like when Othello is trying to strangle or  
14 stab Desdemona, he is saying, wait a minute, let me check  
15 that everything is legit. And if everything is all right,  
16 you can take action.

17 Here you can see exactly what happens. You say  
18 string replace.

19 For example, whenever there is a document write  
20 application, this will be substituted with a ww document  
21 write, which stands for the Webwasher version of the  
22 document write.

23 So when this JavaScript code, for example, will  
24 invoke that document write or the exact screen or the exact  
25 command, actually, they will execute the Webwasher version

442

Vigna - direct

1 of those functions. And in those functions the actual  
2 security policy will be analyzed and the original message  
3 will be allowed or disallowed, depending on the condition of  
4 the security policy.

5 This additional code is exactly that -- I don't  
6 remember the exact verbiage of the patent, but the  
7 protection code that is sent together with the downloadable  
8 is exactly that double double document write implementation,  
9 where that will decide exactly how to execute that  
10 particular operation.

11 So here you can see, for example, the ww write,  
12 if this is hostile, okay, at the moment of the write, so if  
13 Othello is actually killing Desdemona, okay, then block it.  
14 Otherwise, actually, do the original write.

15 So you can see how this allows sort of the  
16 system to get in the middle, between the downloadable and  
17 your environment. And that middle is actually the sandbox.

18 Q. Just to confirm this with some of the documents, we  
19 have looked at PTX-10, Page 15 of this document. Towards  
20 the bottom of the page, do you see something called  
21 sandboxing? When it talks about wraps the suspicious code  
22 in a sandbox, is that what you are referring to?

23 A. That is a very precise description of what happens.  
24 The suspicious code is wrapped in a sandbox, so as I told  
25 you before, each operation that the downloadable thinks it

Vigna - direct

1 is going to invoke, it is actually going to invoke the  
2 sandbox first, which can then inspect and classify the  
3 operation. And if granted, the operation will be forwarded  
4 to the operating system for actual execution.

5 Q. If we go to the next page on PTX-10, Page 16, right  
6 below the figure that that paragraph -- could you tell us  
7 what that first sentence is referring to?

8 A. So I think that if the "preceding" phase hasn't  
9 determined if the list of possible malicious behavior -- I  
10 am sorry. After the list of possible behaviors have been  
11 determined, if that list is not enough to say you are a good  
12 guy or a bad guy, then you have to inject sandboxing code.

13 And Webwasher works with JavaScript and VBScript  
14 files. And it sends the injected code along with the  
15 gateway security policy for this file.

16 So the security policy is the one that when the  
17 interception happens decides yes or no, and it sends that to  
18 the client computer. This is like, you know, the sandbox  
19 that is sent with the downloadable to the client computer.

20 So this is, you know, a direct match with what  
21 is described in the patent.

22 Q. The last element of Claim 4, the D element, wherein  
23 the causing mobile protection code to be communicated  
24 comprises forming a sandboxed package including the mobile  
25 protection code and the downloadable information, and

444

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1 causing the sandboxed package to be communicated to the at  
2 least one information destination, which we agree --

3 A. This is a fancy way to say exactly what we just saw,  
4 where the mobile protection code are those ww functions that  
5 are sent to the client, together with the original  
6 downloadable.

7 Q. We have heard some discussion in the last couple days  
8 regarding mitigation. Is that associated with sandboxing in  
9 some way?

10 A. Yes.

11 Q. Let me show you PTX-9. This is on Page 3440. The top  
12 part, the proactive scanning is a two-tiered filter that  
13 blocks program code based on its potential behavior and  
14 mitigates suspicious script code before transport to the  
15 client computer.

16 Could you explain what you are talking about in  
17 that paragraph?

18 A. It is very much what I just described. So the  
19 proactive scanning here is described as a two-step process.  
20 The first process is extracting the list of possible  
21 malicious behavior, comparing it to a security policy, and  
22 deciding allow or block.

23 And you can see at the bottom part, the figure,  
24 on the left-hand side, for example, for ActiveX control,  
25 there is this allow or block decision that is the result of

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1 applying the security policy. But you can see, then, in the  
2 fourth group of downloadable, that there might be situations  
3 where it is not possible to make a final decision. And  
4 that's especially the case for JavaScript code in HTML or  
5 not in HTML and VBScript code. This is for a number of  
6 reasons.

7 One of the reasons is that these languages have  
8 particular features, for example, that allow the creation of  
9 code on the fly, and execution of that code.

10 Okay. Therefore, sometimes, just looking at the  
11 code, it is not possible to say, oh, okay, Othello might  
12 kill Desdemona. You don't even know what the actual script  
13 is. In those cases, one is clueless. You don't really know  
14 exactly without executing the code, what is going on.

15 So the only way that you have to take control is  
16 either to block, when you see this automatic code execution,  
17 or to do script mitigation, which is to create a sandbox,  
18 that is sent to the client with a downloadable. And  
19 whenever that particular function is executed, at that time  
20 one will have -- the code will have all information  
21 necessary to make that final decision, because it's  
22 happening right now. The evaluation is happening there, so  
23 you have the piece of evidence, the pieces of evidence  
24 necessary to make that final decision.

25 Q. Do you have an opinion as to whether the fourth

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1 And now, when I reload these contents, as you  
2 will see -- okay. I see what happens. Let me just try  
3 this.

4 We have two sessions going on and I don't want  
5 to confuse it.

6 So let's download this again.

7 Here you can see, look, for example, at this  
8 particular piece of code.

9 So in my original code, you see this code. It  
10 was encrypted data. So my code was actually encrypted. And  
11 then it was on the fly decrypted and executed, because it's  
12 one of the script languages that can create code on the fly  
13 and execute it.

14 So you can see that the original source code has  
15 been modified to add this ww filter code so that when eval  
16 is called, okay, actually, the code is first filtered and  
17 not executed, effectively implementing a sandbox system.

18 So this shows how the sandbox is actually  
19 executed.

20 Q. With respect to the dependent claims on the '822,  
21 Claim 5 requires that the sandbox package is formed such  
22 that the mobile protection code will be executed by the  
23 information destination before the downloadable information?

24 A. Correct. This means that the code that is shipped  
25 with the downloadable is interposed before the actual

Vigna - direct

1 element of Claim 4 of the '822 patent is infringed by the  
2 Webwasher product?

3 A. I do have an opinion. I think it does.

4 Q. Is it based upon the source code, the appliance, and  
5 the documents you reviewed?

6 A. Correct.

7 Q. Could you just jump into the Internet setup here and  
8 show how sandboxing works in the real world?

9 A. Yes. For example, in this particular case, here, for  
10 example, here I have some, a malicious script that I just  
11 tried to download. Webwasher identified that there is  
12 something fishy that cannot be determined at run time.

13 But since I have a script security policy  
14 configured, it will just say forget about it. I will not  
15 even try to execute.

16 So let me change the rules of the game a little  
17 bit, and let me for a second wear the hat of the  
18 administrator of Webwasher.

19 So I am loading in, go to my anti-malware, and I  
20 go to practice scanning, setup wizard.

21 Instead of doing a strict level, I can, for  
22 example, this is actually medium, let's do relaxed.

23 Then let's do medium.

24 Let's see if this works. Okay, just wait a few  
25 seconds for that to be put in place.

Vigna - direct

1 downloadable code is executed. Otherwise, the sandboxing  
2 would be ineffective. This means that the injected code, as  
3 we have seen, will be executed before the actual code is  
4 executed.

5 Q. Based on your review of the source code and the  
6 appliance and the documents in this case, do you believe  
7 that Claim 5 is infringed by the Webwasher product?

8 A. I do believe that, because that's exactly what  
9 happens.

10 Q. And in Claim 6, that is a method wherein the sandboxed  
11 package further includes protection policies according to  
12 which the mobile protection code is operable.

13 A. Yes.

14 Q. Would you explain what that is talking about?

15 A. So, okay, we have to hook this function call, so that  
16 our sandboxing code is executed before the downloadable.  
17 But also we have to imbed in this hooked code all the policy  
18 that will tell yes or no, do it or don't do it, whenever the  
19 code is executed.

20 Actually, if you remember, you showed a piece of  
21 documentation before where exactly it would say, from the  
22 Webwasher documentation, that would say, and we are going to  
23 send the protection code with the downloadable, and in  
24 addition, the security policy, to determine what can and  
25 cannot be done.

Vigna - direct

- 1 So it is a direct correspondence with this.
- 2 Q. Based upon your review of the source code, the
- 3 appliance, and the documentation in this case, do you have
- 4 an opinion as to whether Claim 6 of the '822 patent is
- 5 infringed by the Webwasher product?
- 6 A. Yes, that's my opinion.
- 7 Q. And Claim 8 is a claim which requires the protection
- 8 policies correspond with at least one of the information
- 9 destination and a user of the information destination?
- 10 A. Yes.
- 11 Q. What is that talking about?
- 12 A. Well, the protection policies are associated with the
- 13 particular client receiving the code. So the code is
- 14 customized depending on the particular client, the
- 15 particular type of user, and this would infringe.
- 16 Q. And do you have an opinion as to whether the Webwasher
- 17 product infringes Claim 8 of the '822 patent based on your
- 18 review of the source code and --
- 19 A. Yes, my opinion is that it does.
- 20 Q. Let's go back to Claim 4 very quickly. Did you find
- 21 that every element of Claim 4 is literally in the Webwasher
- 22 product?
- 23 A. Yes.
- 24 Q. And did you find at the very least that the Webwasher
- 25 product contains an equivalent of every element of Claim 4

450

Vigna - direct

- 1 in the '822 patent?
- 2 A. Yes.
- 3 Q. Specifically, at the very least does the Webwasher
- 4 product perform substantially the same function of Claim 4?
- 5 A. Yes, sir, it does.
- 6 Q. That is every element of Claim 4?
- 7 A. Yes.
- 8 Q. At the very least does the Webwasher product perform
- 9 in substantially the same way as every element in Claim 4?
- 10 A. Yes.
- 11 Q. At the very least does the Webwasher product yield the
- 12 same result as every element in Claim 4?
- 13 A. Yes.
- 14 Q. Are the materials you relied on for your literal
- 15 infringement opinion the same documents that you relied on
- 16 for your doctrine of equivalents opinion?
- 17 A. Correct.
- 18 Q. This will be the last asserted series of claims,
- 19 Claims 12 and 13 of the '822 patent. This is a
- 20 processor-based system, as opposed to a method. It has four
- 21 elements. The first element is an information monitor for
- 22 receiving downloadable information. Do you understand what
- 23 that is referring to?
- 24 A. Yes. The information monitor is a fancy term to say
- 25 intermediary between a client and a server, it is something

Vigna - direct

- 1 that monitors the exchange of information between a client
- 2 and a server. And therefore, Webwasher directly watches
- 3 this definition, as it can act as an intermediary and
- 4 receives the downloadable information.
- 5 Q. So in your opinion, does the Webwasher product
- 6 infringe the first element of Claim 12?
- 7 A. Yes, it does.
- 8 Q. And you base that on the review of the source code,
- 9 the appliance itself, and the documents you reviewed?
- 10 A. Correct.
- 11 Q. The second element is a content inspection engine
- 12 communicatively coupled to the information monitor for
- 13 determining whether the downloadable information includes
- 14 executable code.
- 15 Could you explain what that is referring to?
- 16 A. So a content inspection engine, again, by engine,
- 17 usually one refers to the component as some active behavior,
- 18 so in this case, it is a component that inspects, analyzes,
- 19 the content of the information to determine if the
- 20 downloadable information includes executable code.
- 21 Again, this is a fancy, technical way to say,
- 22 there is an intermediary, there is a downloadable that comes
- 23 in, and there is something that acts as the downloadable and
- 24 says, oh, is there any code inside this?
- 25 Q. And based on your review of the source code, the

452

Vigna - direct

- 1 Webwasher appliance, and the documents in this case, do you
- 2 have an opinion as to whether the B element of Claim 12 is
- 3 infringed by the Webwasher product?
- 4 A. Yes, I think it does infringe.
- 5 Q. Is that based --
- 6 A. Based on the analysis of the source code, the
- 7 documentation, and the use of the appliance.
- 8 Q. The C element is a packaging engine communicatively
- 9 coupled to the content inspection engine for causing mobile
- 10 protection code to be communicated to at least one
- 11 information destination of the downloadable information, if
- 12 the downloadable information is determined to include
- 13 executable code.
- 14 Do you see that?
- 15 A. So, again, engine here is used as component, active
- 16 component. And this component is responsible for modifying
- 17 the downloadable or extend it with this mobile protection
- 18 code, which are those ww functions that I showed you before,
- 19 that will, you know, intersect the actual action performed
- 20 by the downloadable and verify that they don't violate the
- 21 policy of the system.
- 22 Q. Previously, when we were looking at PTX-10, on Page
- 23 16, the paragraph below the image there, you described this
- 24 earlier, how does that relate to the claim element here?
- 25 A. That is exactly what I am talking about.



Vigna - direct

Vigna - direct

1 So here it's clear that the sandboxing code is  
2 injected into JavaScript and VBScript, for example, along  
3 with the gateway security policy, along with the code  
4 necessary to make the decision on the client side whenever  
5 necessary. And this package, so this thing that has been  
6 prepared by a component that packages the downloadable, with  
7 the protection code is sent to the client computer.

8 Then it says, of course, that the script code  
9 will be executed and monitored in an environment where the  
10 sandboxing function will intercept suspicious function codes  
11 and further inspect them with respect to the policy. And if  
12 malicious behavior is recognized, then the sandbox will  
13 block and would erect the browser.

14 Q. Based upon what you just described and your view of  
15 the source code and the other documents and the appliance,  
16 do you have an opinion as to whether the C element of Claim  
17 12 is infringed by the Webwasher product?

18 A. Yes. Based on that information I found that the  
19 Webwasher product infringes the patent claim.

20 Q. And the final element of the Claim 12, wherein the  
21 packaging engine comprises an MPC generator for providing  
22 the MPC, a linking engine coupled to the MPC generator for  
23 forming a sandbox package including the MPC and the  
24 downloadable information, and a transfer engine for causing  
25 the sandbox package to be communicated to at least one

1 A. Yes. And my opinion is that it does.

2 Q. Is it infringed by the Webwasher product?

3 A. Correct.

4 Q. Did you find that every element of Claim 12 of the  
5 '822 patent was literally infringed by the Webwasher  
6 product?

7 A. Yes, I think so.

8 Q. Did you find at the very least the Webwasher product  
9 contains an equivalent of every element of Claim 12?

10 A. Yes. I think it does.

11 Q. Specifically, at the very least does the Webwasher  
12 product perform substantially the same function as all the  
13 elements of Claim 12?

14 A. Yes, it does.

15 Q. At the very least, does the Webwasher product perform  
16 in substantially the same way as a every element in Claim  
17 12?

18 A. Yes, it does.

19 Q. At the very least does the Webwasher yield essentially  
20 the same results as every element of Claim 12?

21 A. Yes, it does.

22 Q. And the last claim is a dependent claim, Claim 13, it  
23 says the same elements of Claim 12 wherein the packaging  
24 engine further comprises a policy generator communicatively  
25 coupled to the linking engine for providing protection

454

Vigna - direct

Vigna - direct

456

1 information destination. Could you describe what that is?

2 A. Yes. I know it doesn't look like this, this is a  
3 fancy way to say, again, the same thing, that there is a  
4 packaging, an active component that will package the  
5 original downloadable with additional code, called mobile  
6 protection code, that will create a sandbox. So again, when  
7 the downloadable tries to execute a dangerous operation, the  
8 sandboxing code will be executed instead. And the decision  
9 will be made at that time based on the security policy  
10 enforced by the Webwasher appliance.

11 Q. If we look at PTX-9, going back to that little figure  
12 we had, if you look at the last line, it says before  
13 transport to the client computer, that last line in the  
14 paragraph above the image?

15 A. Correct.

16 Q. When we talk about transport to the computer, is that  
17 the transport engine that we are referring to in this last  
18 element?

19 A. Yes, the packaging engine together with the code  
20 before the downloadable, before it is sent to the client  
21 computer so the client computer will benefit from the  
22 protection code.

23 Q. Given your review of the source code, the appliance,  
24 and all the documents in this case, do you have an opinion  
25 of whether the last element of Claim 12 is infringed?

1 policies according to which the MPC is operable. Do you  
2 have an opinion as to whether that claim is found in the  
3 Webwasher product?

4 A. This particular claim is a fancy version, something  
5 that says that there is some kind of policy that is included  
6 with a downloadable so that it is applied whenever on the  
7 client's side the sandboxing code is executed. And, yes,  
8 Webwasher does that, sends the security policy, together  
9 with the mobile protection code or the mitigation code, as  
10 they call it, to the client side. And therefore, I think,  
11 it does infringe this patent claim.

12 Q. Can I check that box?

13 A. You can check that box.

14 MR. ANDRE: Your Honor, might I have one moment,  
15 please?

16 (Pause.)

17 BY MR. ANDRE:

18 Q. Dr. Vigna, when you were reviewing the source code for  
19 the Webwasher product, and you were searching around, did  
20 you come across Finjan's name in the source code?

21 A. Yes. Actually, I did. Out of curiosity, I searched  
22 for Finjan across the code and found a few references to it  
23 in the tree of information that was associated with the  
24 source code.

25 Q. Could you do that search now and see if you can find

Vigna - direct

1 it again?

2 A. I can. What I am going to do here is look for the

3 Finjan word in everything. It might take a few seconds.

4 Right now, this command is recursively searching

5 every single file within the ww CSM 510 directory, looking

6 for the word Finjan in any position in any file.

7 Okay. Just found something. For example, in

8 this case there is a file called ww 350 MR project. I guess

9 it's a project file. In this particular case, for example,

10 there is this, I guess this is what triggered it, "Finjan

11 buster needs research."

12 This would be one of those. But we can complete

13 the search on all the code.

14 You can see here, this says function helps to be

15 competitive with products from Finjan. These are the things

16 that triggered that particular search. This is something

17 else from another version of Webwasher, 6.5.3, to be

18 precise. And in this particular code, again, we have, you

19 know, something here, it must be -- here it is. Function

20 helps to be competitive with Finjan. Increased security.

21 Q. Is it still searching or is that it?

22 A. Still searching. It will take another few seconds.

23 Not very long, though.

24 (Pause.)

25 I notice in the next-to-the-last line, Finjan Bu

458

Vigna - direct

1 after needs research. Is that the same reference as you

2 noted earlier?

3 A. Yes, it is the same task referred to in a different

4 source file.

5 Q. It is right before this proactive security note. Is

6 that correct?

7 A. I am not an expert in this, on project files. I think

8 this is an XML description of a task that had to be

9 performed by somebody, and that's what is described here.

10 That's another similar task, you can see the Finjan buster

11 again referenced here. These are copies of pretty much

12 exact same thing.

13 MR. ANDRE: Thank you very much, Dr. Vigna. I

14 appreciate your time today.

15 Your Honor, we have no further questions of Dr.

16 Vigna.

17 THE COURT: That will bring us to the end of our

18 day, ladies and gentlemen.

19 Please remember my instructions to you of

20 yesterday and earlier. We will see you back at 9:00

21 tomorrow.

22 (Jury leaves courtroom at 4:21 p.m.)

23 THE COURT: Doctor, you are excused for the day.

24 THE WITNESS: Thank you very much, Your Honor.

25 MR. SCHUTZ: Your Honor, may we have the usual

459

Vigna - direct

1 instruction?

2 THE COURT: Yes. Doctor, you are under

3 examination and therefore should not discuss your testimony

4 with your counsel or anyone.

5 THE WITNESS: Okay. Thank you.

6 MR. SCHUTZ: One housekeeping matter.

7 THE COURT: That is why I stayed.

8 MR. SCHUTZ: We would like the transcript of his

9 testimony under seal because it made a lot of references to

10 very specific functionalities in the source code, which if

11 it became public would enable someone to more easily hack

12 through Webwasher. And we don't want that to happen.

13 THE COURT: Any objection?

14 MR. ANDRE: No objection.

15 THE COURT: We will do that.

16 Anything else in advance of tomorrow?

17 MR. HOLDREITH: Your Honor, it would be helpful

18 to us if we could just inspect Dr. Vigna's setup over there

19 a little bit. Counsel said that would be all right. I

20 wonder if the courtroom is available for 15 minutes or so.

21 THE COURT: Sure.

22 Is there a more recent than when the PTO was

23 submitted iteration of the proposed final jury instructions

24 floating around anywhere?

25 MS. KOBIALKA: I don't think so. We are still

460

Vigna - direct

1 working through some of those issues.

2 THE COURT: I would like to have one tomorrow by

3 the end of the day, see where you are.

4 What about the verdict form, have you been

5 discussing the verdict form at all?

6 MS. KOBIALKA: We have exchanged some e-mails

7 about it. We will get that as well.

8 THE COURT: I should think that you would be

9 able to consolidate into one document your proposals as to

10 the verdict form. I see some differences. I am not sure

11 that I know the reason for them.

12 One side may prefer one form and another

13 another. I see in Secure's here, there is mention made of

14 patent exhaustion, at least in the iteration I have, and

15 licensing, barred by license or release. That may be

16 another interrogatory. If you can't, you can't. But if you

17 can, good.

18 See you tomorrow.

19 (Court recessed.)

20 - - -

21 Reporter: Kevin Maurer

461

1 IN THE UNITED STATES DISTRICT COURT  
 2 IN AND FOR THE DISTRICT OF DELAWARE  
 3  
 4 FINJAN SOFTWARE LTD., : Civil Action  
 5 Plaintiff, : No. 06-369 (GMS)  
 6 v. :  
 7 SECURE COMPUTING CORPORATION, :  
 8 CYBERGUARD CORPORATION, :  
 9 WEBWASHERE AG and DOES 1 :  
 10 THROUGH 100, :  
 11 Defendants. :

11 Wilmington, Delaware  
 12 Tuesday, March 4, 2008  
 13 8:30 a.m.  
 14 Day Three of Trial

15 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
 16 and a Jury

17 APPEARANCES:

18 PHILIP A. ROVNER, ESQ.  
 19 Potter Anderson & Corroon LLP  
 20 -and-

21 PAUL J. ANDRE, ESQ.,  
 22 LISA KOBIALKA, ESQ.,  
 23 JAMES HANNAH, ESQ.,  
 24 MEGHAN WARTON, ESQ.,  
 25 KRIS KASTENS, ESQ., and  
 HANNAH LEE, ESQ.

King & Spalding  
 (Silicon Valley, California)

Counsel For Plaintiff

1 THE COURT: Good morning. Please be seated.

2 There are some issues?

3 MR. ANDRE: Good morning, Your Honor.

4 THE COURT: Mr. Andre.

5 MR. ANDRE: We have a couple issues regarding  
 6 deposition designations. With we are going to finish with  
 7 Dr. Vigna today. We will put our damages expert in.

8 THE COURT: Is he actually going to finish  
 9 today?

10 MR. ANDRE: We will be closing our case today.  
 11 Defendants have deposition designations they are going to  
 12 play into the record on videotape. We have the same  
 13 objection from both of them. There is a subject matter  
 14 regarding our 8 --

15 THE COURT: To the entire --

16 MR. ANDRE: A portion of both of them, they  
 17 relate to a recall of our product, our latest product, 8.5  
 18 version. It is highly prejudicial, and has absolutely no  
 19 bearing on validity in this case whatsoever. That is the  
 20 basis.

21 THE COURT: All right. Mr. Schutz.

22 MR. SCHUTZ: First, a minor correction. I think  
 23 we are readings them in. Yes.

24 The issue, Judge, is in response to their  
 25 allegations that their product has been commercial licensee

462

1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
 3 KELLY J. FARNAN, ESQ.  
 4 Richards, Layton & Finger

5 -and-

6 RONALD J. SCHUTZ, ESQ.,  
 7 CHRISTOPHER A. SEIDL, ESQ.,  
 8 TREVOR J. FOSTER, ESQ., and  
 9 JAKE M. HOLDREITH, ESQ.  
 10 Robins, Kaplan, Miller & Ciresi, L.L.P.  
 11 (Minneapolis, MN)

12 Counsel for Defendants

464

1 successful and they have put that out there front and center  
 2 and it's merely rebuttal to commercial success.

3 I think it also probably relates, at least at  
 4 some level, to their argument that we copied their product,  
 5 although it is the later of these but it goes right to the  
 6 heart of commercial success.

7 THE COURT: Sounds like it does to me,  
 8 Mr. Andre.

9 MR. ANDRE: This is a version, Your Honor, that  
 10 was released two months ago. In --

11 THE COURT: You are saying the version that was  
 12 recalled?

13 MR. ANDRE: Yes. This is the last couple  
 14 months. In deposition took place in October 2007. It was a  
 15 hardware problem. That product has hit the market now,  
 16 widely successful. We have had our best quarter ever in the  
 17 fourth quarter.

18 So what -- if you see the testimony, Your Honor,  
 19 it is just a couple pages. I can hand this up if you would  
 20 like to see it.

21 THE COURT: I think I have the issue.

22 Mr. Absolute, I don't want to have a mini-trial  
 23 on this issue, if we can avoid it. I understand your point.  
 24 Why don't you react to, Mr. Andre has just indicated that  
 25 this is a later version -- is it an entirely different

1 product or a later iteration of an earlier product?

2 MR. ANDRE: It is the newest version. It is a  
3 later iteration. It is software updates.

4 THE COURT: There was a recall?

5 MR. ANDRE: Yes, based on a hardware issue.

6 THE COURT: Is that made clear in the dep  
7 segments that you want to read, Mr. Schutz?

8 Take a moment.

9 MR. SCHUTZ: Your Honor, as I understand it,  
10 it's actually three separate versions, and that will be  
11 clear in here. It's about the last year and a half. And  
12 their corporate rep got up there and said, It's a great  
13 product and we have a great company. It is a rebuttal to  
14 that. I think we are entitled to that as a matter of  
15 fairness.

16 THE COURT: Do you have a witness to explain  
17 this, if we get into this?

18 MR. ANDRE: We do, Mr. Ben-Itzhak. But it is  
19 not relevant to any issue in this case.

20 THE COURT: It may be. Mr. Schutz and his team  
21 say it is, he says there is three different versions. We  
22 can parse it if you want. We have a few moments, if we can  
23 narrow the focus a little bit and identify with greater  
24 particularity what we are talking about.

25 If it is a later version that's not the subject

466

1 of a commercial success attack, or lack thereof, then I can  
2 understand your point. But I agree with Mr. Schutz that it  
3 goes to the issue of commercial success.

4 It may be prejudicial, but if it is a version of  
5 the software, you say it's a version of one of the  
6 inventions that is at issue, it seems to me, it is fair  
7 game. Why don't you go ahead.

8 MR. ANDRE: I am looking at this testimony, it  
9 is regarding Version 8.5 that's what Ms. Kaye talks about  
10 and that's also what Mr. Frommer is speaking about.

11 THE COURT: This is the version that you say --  
12 what is it you say about this?

13 MR. ANDRE: It was released just a few months  
14 ago. What happened in this deposition regarding Ms. Kaye,  
15 she is quite humorous, by the way, she is a technical  
16 writer. The defendant's counsel went on our website and  
17 pulled the user manual for 8.5, when they asked her, Is this  
18 product released yet? This is October of 2007. She says  
19 that's not released.

20 THE COURT: Let's see if we can do it this way.  
21 It may be easier, if there is agreement, if there is not,  
22 then it is not going to be easier.

23 Mr. Schutz, do you agree, if this is a later  
24 version, a product that was released a couple months ago and  
25 therefore perhaps not relevant and not subject to the attack

1 that you would like to make, if you would agree on that  
2 principle, maybe the two of you could talk.

3 MR. SCHUTZ: The top line there, Judge. Upgrade  
4 from Version 8.4 to 8.43. There is 8.5 later on, he says.  
5 It is more than just 8.5. It says, so the quality problem  
6 is related to hardware problems with appliances. And there  
7 is upgrade problems across versions. That is the answer.  
8 It goes to more than 8.5. It's not just the layout test  
9 version.

10 THE COURT: The playing field will stay level  
11 here. I want to make sure we are talking about the same  
12 version, Mr. Andre. He says 8.4, 8.43.

13 MR. ANDRE: They are talking about upgrades,  
14 automatic upgrades from 8.43 to 8.5. 8.5 is the recall.

15 THE COURT: I am going to overrule the  
16 objection. You can put on a witness. You have already  
17 explained the reason. I am sure you can explain it to the  
18 jury.

19 MR. ANDRE: Thank you, Your Honor. Ms. Kobialka  
20 will explain our issue.

21 MS. KOBIALKA: Good morning, Your Honor.

22 THE COURT: Good morning.

23 MS. KOBIALKA: They indicated that their expert  
24 is going to be relying on JTX-37, which are some handwritten  
25 notes of one of their witnesses that was on their will-call

468

1 witness. I understand this witness is no longer coming.  
2 There has been no authentication or foundation for this  
3 particular exhibit.

4 MR. HOLDREITH: We plan to use this exhibit in  
5 cross-examination of Dr. Vigna. This is an exhibit that was  
6 hand-drawn by one of the WebWasher employees in Germany at  
7 the request of Mr. Hannah that to illustrate how WebWasher  
8 can be configured.

9 Mr. Hannah had the opportunity to cross-examine  
10 the witness during the deposition. In fact, the witness  
11 drew this at the direction of Mr. Hannah. I showed it to  
12 Dr. Vigna during his deposition. I asked him some questions  
13 about this configuration of WebWasher. I believe he will  
14 testify today that he understands this is a configuration of  
15 WebWasher. And there is some testimony that I would like to  
16 elicit about how the product operates in this configuration  
17 and how that relates to his opinion.

18 THE COURT: You are not offering it as an  
19 exhibits?

20 MR. HOLDREITH: I am happy to use it as a  
21 demonstrative. I am happy if it comes in as substantive  
22 evidence.

23 MS. KOBIALKA: That wasn't the objection. The  
24 objection was to Dr. Wallach, their using it.

25 MR. HOLDREITH: My plan was to use it on



1 cross-examination. If Dr. Vigna comments on it in some  
2 unexpected way, I would like Dr. Wallach to answer that.  
3 THE COURT: We can talk about that at the time.  
4 Right now, you don't object to the stated intended use.  
5 MS. KOBIALKA: As a demonstrative, no.  
6 THE COURT: On cross and as a demonstrative.  
7 MS. KOBIALKA: That's correct.  
8 The other objection we raise is they have  
9 indicated they want to use our source code, but they told us  
10 they are not going to use it as an exhibit or demonstrative  
11 but they want it to be an exhibit in this case. I tried to  
12 talk to the other side and meet and confer, and I do not  
13 understand their position. If you want to say he looked at  
14 the source code, I am okay with that.  
15 THE COURT: Who is this?  
16 MS. KOBIALKA: The defendants' expert witness.  
17 THE COURT: Which expert?  
18 MS. KOBIALKA: Mr. Wallach.  
19 MR. HOLDREITH: He just wants to refer to the  
20 source code, the Finjan source code and he examined him. We  
21 did want to put them on notice of that. I am not going to  
22 put their source code in the record.  
23 MS. KOBIALKA: But they are insisting on putting  
24 it as an exhibit on Defendant's Exhibit list. I don't know  
25 why you want to make it an exhibit.

470

1 MR. HOLDREITH: We want to refer to it by  
2 exhibit number. I am not putting it into evidence.  
3 THE COURT: You are not seeking to have it  
4 admitted?  
5 MR. HOLDREITH: No, Your Honor.  
6 MS. KOBIALKA: I want to make sure that the  
7 source code is not going to be evidence, so we are clear on  
8 the record.  
9 THE COURT: You are not going to move its  
10 admission, as I understand it?  
11 MR. HOLDREITH: No, sir, I will not put the  
12 source code in evidence.  
13 THE COURT: So the record is clear, it is not in  
14 evidence at this point.  
15 MS. KOBIALKA: Thank you, Your Honor.  
16 THE COURT: Anything else?  
17 MR. ROVNER: Your Honor, I have one point. Last  
18 evening we sent over exhibits that we are going to use with  
19 Mr. Parr today, two of them were IDC reports, I hate to be  
20 the IDC man, but they have objected on the same basis on  
21 which they have been objecting and which you overruled  
22 yesterday. We plan on using at least one, possibly two --  
23 THE COURT: I haven't heard Mr. Schutz object to  
24 anything. I didn't see Mr. Schutz open his mouth.  
25 MR. SCHUTZ: We just have a protocol that at

1 10:00 o'clock, we lodge objections. It is always a protocol  
2 issue. I understand the Court's ruling.  
3 MR. ROVNER: We got it at 11:00. I thought  
4 maybe someone had forgotten.  
5 THE COURT: Same ruling. We will come back in  
6 ten minutes.  
7 (Recess taken.)  
8 THE COURT: All right. Ms. Walker. Counsel, I  
9 hope you are keeping time on one another. This is a timed  
10 trial. We will break at 4:00 today. I have a sentencing at  
11 4:15. You can leave your stuff there. But I am going need  
12 the space at 4:15.  
13 MR. HOLDREITH: Your Honor, I discussed with  
14 counsel, we are going to start with source code so we will  
15 be clearing the courtroom.  
16 (Jury enters courtroom at 9:05 a.m.)  
17 THE COURT: We will have a bit of an early day.  
18 We will break at 4:00 today, ladies and gentlemen, because I  
19 have a sentencing at 4:15.  
20 All right, Doctor.  
21 GIOVANNI VIGNA, having been duly  
22 sworn as a witness, was examined and testified as follows.  
23 THE COURT: You are still under oath, Dr. Vigna.  
24 We are now ready for cross-examination. Mr. Holdreith.  
25 MR. HOLDREITH: Thank you, Your Honor.

472

Vigna - cross-examination

1 CROSS-EXAMINATION  
2 BY MR. HOLDREITH:  
3 Q. Good morning, Dr. Vigna.  
4 A. Good morning.  
5 Q. At your deposition, you introduced yourself to me as  
6 Vigna and that's how I learned to pronounce your name. I am  
7 in that habit so I am going to stick with that today.  
8 A. And I say both ways are fine.  
9 Q. In your deposition, you told me to call you Mr. Vigna.  
10 I will call you Dr. Vigna today, so if I slip into my old  
11 habit, I apologize.  
12 A. Yes. I don't care much about titles.  
13 Q. Yesterday, you ended your testimony by referring to  
14 some source code and you did a search for the word "Finjan."  
15 Do you remember that?  
16 A. Correct.  
17 Q. Can you do that search again right now and go back to  
18 those lines of code that you were pointing out?  
19 A. Yes. You said, "Those lines of code"?  
20 Q. I am going to ask you about that. The references that  
21 you found to the word Finjan?  
22 A. All right. So what I did, I ran this command, it's  
23 called grep, which will find any occurrence within the  
24 directories that contain the source code. So I do this, it  
25 will search pretty much everywhere.

Vigna - cross-examination

1 It will take a few moments. Recursive, just to  
2 give you a filler, the dash I means that it is looking for  
3 Finjan regardless of the case of the word. And the -R means  
4 that it's looking recursively throughout all folders.  
5 Q. While it is looking, I will ask you a couple of  
6 questions, we will let the program run.  
7 My question just now, I said you found some code  
8 that contained Finjan. And you asked me a question.  
9 In fact, the references to "Finjan" here are not  
10 in lines of code, are they?  
11 A. No, they are not. I said that I found it in the  
12 folders of the source code. That's correct.  
13 Q. These references are, would you agree with me, they  
14 are sort of comments or notes that somebody made in the file  
15 that are intended for humans to read?  
16 A. My guess, these are an XML coded representation of the  
17 tasks in a project management system.  
18 Q. I have a simpler question. These are comments which  
19 are intended for humans to read?  
20 A. Well, it depends. The actual format is made to be,  
21 it's X amount, so it is not directed to a human to read like  
22 this. It is directed to be parsed by an application. And  
23 the content, itself, is, as you can see, natural language,  
24 English. And it is common, written by a human, possibly, to  
25 be read by a human.

474

Vigna - cross-examination

1 Q. And do you understand that these are sort of like  
2 notes in the file about something that was happening?  
3 A. Notes in the file --  
4 Q. So these are notes that a human can read to try to  
5 understand what was happening?  
6 A. Correct.  
7 Q. You found one reference here on the screen, and it  
8 sort of breaks awkwardly at the bottom. It is in that third  
9 line up from the bottom, where it says, Note equals Finjan  
10 buster needs research, period.  
11 Is that the reference you were pointing out?  
12 A. I mean, I was pointing out function helps to be  
13 competitive with products from Finjan. And -- where is  
14 that? "Finjan buster needs research," which is here.  
15 Whenever Finjan appears, which is the result of  
16 applying that particular message here, we have, you know,  
17 more results that say, I guess, the same thing. But if it  
18 prints, it means that somewhere the word "Finjan" is there.  
19 For example, again, here we have --  
20 Q. Dr. Vigna, you are giving me a longer answer than I  
21 really called for. I don't want to cut you off. But I am  
22 asking a simple question right now.  
23 The reference you found yesterday includes this,  
24 Function helps to be competitive with products from Finjan?  
25 A. Yes.

Vigna - cross-examination

1 Q. And the other reference you found was the one that  
2 said, "Finjan buster needs research"?  
3 A. Correct.  
4 Q. Did you find any other references to Finjan in this  
5 search?  
6 A. We will let the program finish. I don't think so.  
7 But let the program finish and I will be able to tell you  
8 with certainty.  
9 Q. Let's talk about these two while the program is  
10 running.  
11 Right now, the program is running in the  
12 background looking for Finjan in other places?  
13 A. Correct.  
14 Q. Since you have got this one highlighted, "Finjan  
15 buster needs research."  
16 You know that WebWasher employees wrote the code  
17 for WebWasher. Right?  
18 A. Well, I don't really know that.  
19 Q. You didn't study that?  
20 A. No, I didn't do any analysis or code attribution.  
21 Q. Now, you know that there is a lot of code in  
22 WebWasher. You have been searching through it?  
23 A. Yes.  
24 Q. In fact, the program is still running, searching  
25 through it?

476

Vigna - cross-examination

1 A. Correct.  
2 Q. And you know that it takes time and efforts to write  
3 code?  
4 A. You are asking me in general?  
5 Q. Yes. It doesn't write itself?  
6 A. Of course. A human being has to actually write the  
7 code.  
8 Q. And you know that people had to write code that could  
9 analyze a downloadable and characterize the behavior of that  
10 downloadable in ProActive scanning?  
11 A. Yes.  
12 Q. And you know that there are hundreds of rules in the  
13 database of heuristic rules in WebWasher?  
14 A. Actually, I haven't counted them, so that's what you  
15 are telling me or you are asking me?  
16 Q. I am asking you. You have seen references to Rule  
17 400, Rule 800?  
18 A. Well, you know, if the rules are -- you know, I can  
19 call Rules 100, 200, 300, and I have three rules. I haven't  
20 counted them. But if you want, I can count them and give  
21 you an answer.  
22 Q. I don't need you to do that right now.  
23 A. Some time.  
24 Q. You know the rules are numbered in the hundreds?  
25 A. Yes, they are numbered.

Vigna - cross-examination

- 1 Q. And it takes time to write hundreds of rules -- let me  
2 withdraw that question.  
3 A person had to write those rules?  
4 A. Not necessarily. Sometimes rules can be automatically  
5 generated.  
6 Q. You know that the rules in the heuristic database were  
7 written by people. Right?  
8 A. I don't know that.  
9 Q. You don't, all right.  
10 Now, "Finjan buster needs research here," isn't  
11 it reasonable to conclude that that is a reference to, We  
12 need to do work on this Finjan buster project?  
13 A. Sorry. Can you repeat the question? I don't  
14 understand what you are asking.  
15 Q. When somebody wrote, "Finjan buster needs research"  
16 here, isn't it reasonable to conclude that person was saying  
17 we need to work on this project?  
18 A. Need to do research on the Finjan buster, yes.  
19 Q. The other comment that you found, and maybe you can  
20 highlight it here so we can see it, a function helps to be  
21 competitive with products from Finjan.  
22 Do you see that?  
23 A. Yes.  
24 Q. Did you do any investigation to figure out what  
25 function that is referring to?

478

Vigna - cross-examination

- 1 A. No.  
2 Q. And you did a report in this case. Right? You gave  
3 an expert report?  
4 A. Yes, I did.  
5 Q. And in your expert report, you didn't make any  
6 reference to these Finjan references, did you?  
7 A. I didn't.  
8 Q. Is this some research you did recently after your  
9 report?  
10 A. This is not. I mean, I looked for Finjan, actually,  
11 when I reviewed the source code. And I saw that there was  
12 these comments in the code.  
13 Q. It's fair to say you didn't think it was worth  
14 mentioning that in your report?  
15 A. Well, my report had a different -- I mean, in my  
16 report, I was looking at the claims and finding infringing  
17 parts in WebWasher for each of the claims. And that was my  
18 job.  
19 Q. You didn't think that this was important enough for  
20 that analysis to mention it. Is that right?  
21 A. Well, yes. To that degree, I think that this is  
22 not -- that was not my role.  
23 Q. And you know that Finjan and Secure Computing compete  
24 with each other?  
25 A. I do know, yes.

Vigna - cross-examination

- 1 Q. You know that one of the ways they compete is they try  
2 to build products that are competitive with each other?  
3 MR. ANDRE: Objection, Your Honor. Lack of  
4 foundation. He is a technical expert, not a competitive  
5 expert.  
6 THE COURT: Sustained.  
7 BY MR. HOLDREITH:  
8 Q. In any event, Dr. Vigna, you were not asked to find  
9 any code here and determine whether it had been written as  
10 original work by any WebWasher people?  
11 A. Sorry. Can you repeat that question?  
12 Q. I will repeat the question. In your investigation,  
13 you were not asked to determine whether WebWasher code was  
14 the original work of WebWasher employees?  
15 A. No, I wasn't asked to do that.  
16 Q. And you are not offering any opinions one way or  
17 another on that?  
18 A. No.  
19 Q. And, in fact, these comments are simply comments that  
20 show people at WebWasher were working on product?  
21 A. I haven't done any research on that to be able to give  
22 you a definitive answer. I know that these are tasks. They  
23 look like tasks that were assigned to WebWasher people at a  
24 certain point in time.  
25 Q. And their task is to go do some work and write some

480

Vigna - cross-examination

- 1 code and come up with a product?  
2 A. It says, Do research, we need to do research on the  
3 Finjan buster. That's all I can say.  
4 Q. Now I want to ask you about a demonstration that you  
5 did yesterday that related to a CyberGuard web page.  
6 Do you remember that?  
7 A. Yes.  
8 Q. Can you switch over to that system?  
9 A. Okay.  
10 Q. And pull that page up.  
11 A. So the page you are asking me about is the CyberGuard  
12 page?  
13 Q. That's right.  
14 A. Is this the page?  
15 Q. Yes.  
16 MR. ANDRE: Your Honor, I would like to unseal  
17 the record now. Source code.  
18 THE COURT: Okay. Is there someone in the  
19 courtroom that should not be here?  
20 MR. ANDRE: We will bring them in.  
21 THE COURT: Unseal the record?  
22 MR. ANDRE: Yes, Your Honor.  
23 BY MR. HOLDREITH:  
24 Q. Dr. Vigna, this is a page from a server, and you found  
25 this page on the Internet somewhere. Is that right?

Vigna - cross-examination

- 1 A. This setup was prepared for me. So I haven't  
 2 personally prepared this page. But I think that this page  
 3 was actually prepared by Yuval. And he said that he took it  
 4 from the CyberGuard website.  
 5 Q. Mr. Ben-Itzhak gave this page to you?  
 6 A. Yes. I mean, the setup here was given to me, yes.  
 7 Q. Can you just scroll down and show us the exe file that  
 8 you clicked on.  
 9 A. (Witness complies.)  
 10 Q. You are now pointing to a file called cleanrbin.exe  
 11 A. Correct.  
 12 Q. Is that an executable file?  
 13 A. Yes, that is my understanding.  
 14 Q. Is that a downloadable within the meaning of the  
 15 Finjan patents?  
 16 A. Yes.  
 17 Q. Is that .exe file the kind of file that has a  
 18 reference to other components?  
 19 A. It might.  
 20 Q. Do you know if this one has a reference to other  
 21 components?  
 22 A. I haven't analyzed that file to be able to answer  
 23 that.  
 24 Q. Are there any other components on this server that  
 25 this cleanrbin.exe refers to?

482

Vigna - cross-examination

- 1 A. I have no idea.  
 2 Q. You have no idea.  
 3 All right. Your demonstration here was relevant  
 4 to the '780 patent. Right? You were showing how the  
 5 hashing works?  
 6 A. Well, also, the '194 patent. Right?  
 7 Q. Let me ask you: You were showing how WebWasher  
 8 creates a hash when you retrieved this file. Right?  
 9 A. I also showed how WebWasher blocks this file, because  
 10 it has some behavior --  
 11 Q. I understand that. Right now I want to ask you about  
 12 the demonstration where you --  
 13 A. The hash, okay.  
 14 Q. -- where it gets hashed by WebWasher.  
 15 A. Correct.  
 16 Q. All right? Can you read this from where you are  
 17 sitting?  
 18 A. Actually, I can't.  
 19 Q. This is a claim from the '780 patent. Do you  
 20 understand that?  
 21 A. Yes.  
 22 Q. And this claim has a limitation that says you generate  
 23 a downloadable ID to identify a downloadable. Right?  
 24 A. Yes.  
 25 Q. And it says, if I can just stand over here so I can

Vigna - cross-examination

- 1 read a little better, there is a downloadable that includes  
 2 one or more references to software components. Right?  
 3 A. Yes.  
 4 Q. And the components are required to be executed by that  
 5 downloadable. Is that right?  
 6 A. Correct.  
 7 Q. So you have two things. You have a downloadable, and  
 8 you have a component referenced by the downloadable?  
 9 A. Yes.  
 10 Q. And what this claim says you do is, you fetch at least  
 11 one software component identified by the one or more  
 12 references. Right?  
 13 A. Yes.  
 14 Q. And you perform a hashing function on the downloadable  
 15 and on the fetched software component?  
 16 A. Correct.  
 17 Q. Is that right?  
 18 So you have a downloadable. You have a software  
 19 component. You have to get both things, get the  
 20 downloadable, get the component, hash the downloadable and  
 21 the software component. Right?  
 22 A. Yes.  
 23 Q. And in your demonstration, you showed WebWasher  
 24 hashing this cleanrbin.exe?  
 25 A. Yes. That was one of the files that I showed the

484

Vigna - cross-examination

- 1 demonstration for.  
 2 Q. But you have no idea whether this cleanrbin.exe has a  
 3 reference to a software component?  
 4 A. Correct.  
 5 Q. And you have no idea whether this .exe file, when you  
 6 clicked on it, whether that caused your computer to request  
 7 and fetch a separate software component?  
 8 A. Say that again?  
 9 Q. Sure. When you clicked on the cleanrbin.exe file  
 10 yesterday, you have no idea whether your computer fetched a  
 11 software component?  
 12 A. Yeah, correct.  
 13 Q. And, so, you have no idea whether your demonstration  
 14 showed infringement of this '780 patent?  
 15 A. Well, I see a web page, HTML code being downloaded  
 16 right now. That code has reference to another downloadable  
 17 that is cleanrbin.exe. I am sure that there are IDs being  
 18 created for the page, for cleanrbin.exe, and cleanrbin.exe  
 19 will ask for more references to different components. Those  
 20 IDs will be created, also.  
 21 Another example would be the IO class that you  
 22 see in the same file that is a Java application. I don't  
 23 know if it references other systems. But it is clear from  
 24 what I saw that when you download, for example, a Java  
 25 applet and a new piece is required, then that new piece is



Vigna - cross-examination

Vigna - cross-examination

1 also hashed for an ID. So that's my understanding.

2 Q. Hang on --

3 THE COURT: Let him finish his answer.

4 MR. HOLDREITH: Sorry, Your Honor. I meant to  
5 ask a very specific question.

6 THE COURT: You did ask a specific question. He  
7 was answering it. If you need a follow on, go ahead and  
8 follow on. But let him finish his answer.

9 Have you finished, Doctor?

10 THE WITNESS: I am finished, Your Honor, thank  
11 you.

12 BY MR. HOLDREITH:

13 Q. The narrow question I intended to ask is when you  
14 clicked on cleanrbin.exe in your demonstration yesterday,  
15 you don't know whether cleanrbin.exe fetched a software  
16 component?

17 A. I don't. I know that the page that contains the  
18 reference to cleanrbin.exe has been downloaded and there is  
19 a reference to these other downloadables.

20 We decided before that, you know, pages with  
21 code in it and HTML code represented a downloadable.

22 Q. Now, you just said, I think, in your answer a moment  
23 ago, that if you download a Java applet with a reference to  
24 a component, that is downloading a downloadable, with a  
25 reference to a software component, and it fetches that

1 A. With respect to that patent, I see that I have a

2 downloadable that includes one reference to that  
3 cleanrbin.exe, correct. So there is one downloadable, the  
4 web page has a reference to these other downloadables  
5 cleanrbin.exe.

6 Q. I understand your opinion is that is a reference. Is  
7 it your opinion that cleanrbin.exe is a component?

8 A. Where do you see component in that?

9 Q. It says here, It fetches at least one software  
10 component?

11 A. Exactly.

12 Q. That's what I am referring to.

13 A. That software component is referenced in the web page  
14 and is downloaded as a consequence. It is not a software  
15 component of the web page. It is referenced, the software  
16 component identified by one of the more references. And I  
17 can show you the web page exactly, the URL, and I explained  
18 yesterday what a URL is, that is referencing the  
19 cleanrbin.exe.

20 Actually, if you let me, I can, if I do this  
21 here, I can see exactly the reference that is referencing  
22 that component, cleanrbin.exe.

23 Q. So we have questions here. One is whether there is a  
24 reference. The other is whether cleanrbin.exe is in your  
25 opinion a component?

486

Vigna - cross-examination

1 component, and it hashes those things. Right?

2 A. Yes. Actually, it would be downloading an HTML web  
3 page. There is a reference to an applet, which is a  
4 reference, possibly, to another component. I don't know,  
5 because I haven't reviewed the downloadable Java applet to  
6 see if there are these other components.

7 My answer is based on how WebWasher works. What  
8 I do, I go into code and I see that whenever there is a  
9 reference, this is downloaded and the hash is computed. And  
10 that is my, you know, report. Maybe, there could be corner  
11 cases where, yes, the page has one reference to  
12 cleanrbin.exe and cleanrbin.exe is not referenced anywhere  
13 else. The chain of reference has to terminate at a certain  
14 point. Otherwise, it would only reference new code and new  
15 code. That is my point.

16 Q. I want to be clear about this, Dr. Vigna. Is the  
17 cleanrbin.exe file, in your opinion, is that a component of  
18 this web page?

19 A. It is referenced in this web page.

20 Q. Is it a component of this web page?

21 A. Define "component." Can you give me a definition, a  
22 component of what?

23 Q. I am asking within the context of this claim, '780  
24 claim, you are the expert here, is the cleanrbin.exe file a  
25 component of this CyberGuard web page?

488

Vigna - cross-examination

1 A. It is a component.

2 Q. Is it a component of this web page?

3 A. Not of the web page. It is one software component  
4 that is referenced by the web page.

5 Q. And you are willing to stick to that opinion?

6 A. That's what it is, my opinion, yes.

7 Q. Now, let's talk a little more about the '780 patent.

8 By the way, you did not reference this  
9 cleanrbin.exe file in your report, did you?

10 A. No, I didn't.

11 Q. Is this work you did after your report?

12 A. Well, this is something that I was given as a setup to  
13 do a demonstration. My report is based on looking at the  
14 code and observing how the code works in the general case.  
15 I don't write my report on specific, you know, one single  
16 example because there could be a corner case.

17 Q. I am going to ask you some more about this patent, the  
18 '780 patent.

19 Now, do you understand, Dr. Vigna, that the  
20 interpretation of hashing here requires that you have to  
21 perform a hashing function on the downloadable and the  
22 fetched software component together?

23 A. You want to generate a hash for both of them, yes.

24 Q. Specifically, as the term has been interpreted in this  
25 case, this claim reads, or will be interpreted to read that

Vigna - cross-examination

1 you perform a hashing function on the downloadable and the  
 2 fetched software components together to generate a  
 3 downloadable ID?  
 4 A. Well, together like in time. So all the components  
 5 that are part of interacting with a certain web page with  
 6 references, all of them will be hashed, and an ID will be  
 7 generated for each of them.  
 8 Q. More basic question. You understand the Court has  
 9 interpreted the term in this case?  
 10 A. I understand.  
 11 Q. You understand the Court's interpretation is, The  
 12 downloadable and the fetched software component are hashed  
 13 together?  
 14 A. Yes. My understanding is, if I can make an analogy,  
 15 is that I was describing the mechanism of producing an ID,  
 16 like putting tags on people at a party, for example. So if  
 17 I have a bunch of people together in the room, they are  
 18 together and I will give each of them a label with their  
 19 name and their ID on it. The fact they are together  
 20 specially or in time is what means I operate on them as a  
 21 group together. And each of them separately get an ID.  
 22 Q. I am going to show you Joint Exhibit 52 in this case,  
 23 Mr. Vigna. Did you consider -- could I have the screen,  
 24 please?  
 25 Did you consider and were you told about file

490

Vigna - cross-examination

1 history in this case that is relevant to this term  
 2 downloading and hashing?  
 3 MR. ANDRE: Objection, Your Honor. We are  
 4 talking about claim construction. The prosecution  
 5 history --  
 6 THE COURT: Let me see counsel.  
 7 (The following took place at sidebar.)  
 8 THE COURT: What is the question?  
 9 MR. HOLDREITH: Your Honor, I want to ask him if  
 10 he is using interpretation of hashing together, so we have a  
 11 foundation to answer the infringement contention.  
 12 MR. ANDRE: Your Honor, Your Honor has  
 13 interpreted this term. He said he used Your Honor's  
 14 interpretation. They are going to put the prosecution  
 15 history up which he did not rely upon in his report because  
 16 he relied on your instruction.  
 17 THE COURT: Why are you referencing the  
 18 prosecution history?  
 19 MR. HOLDREITH: I want to establish that he did  
 20 not consider this document in the prosecution history which  
 21 is relevant to his claim interpretation.  
 22 THE COURT: He wouldn't have to do that. What  
 23 is relevant to his claim interpretation is my interpretation  
 24 of the disputed elements. I am not going to get into a  
 25 debate between you and the witness as to how he did his job.

Vigna - cross-examination

1 Is that what we are about to do?  
 2 MR. HOLDREITH: I think he is parsing your claim  
 3 interpretation. I want to establish that.  
 4 THE COURT: You can establish that. If he is  
 5 doing that, you have a right to do that.  
 6 MR. HOLDREITH: I think this document -- I am  
 7 sorry to interrupt.  
 8 THE COURT: Go ahead.  
 9 MR. HOLDREITH: I think this document, where the  
 10 patentee explains that hashing together means you put them  
 11 together, you know, hash that and hash that --  
 12 THE COURT: I want to be careful here. Did he  
 13 reference this in his report?  
 14 MR. HOLDREITH: He did not.  
 15 THE COURT: But he wouldn't have to.  
 16 MR. HOLDREITH: It impeaches his parsing of your  
 17 claim construction.  
 18 THE COURT: That assumes that he is parsing.  
 19 That is your position. I suspect Mr. Andre says, Well, it  
 20 is not parsing. And this jury will not understand that  
 21 anyway, at the end of the day. What you want to establish  
 22 is he is not following the Court's claim construction?  
 23 MR. HOLDREITH: That's right, Your Honor.  
 24 THE COURT: That is fine. Mr. Andre.  
 25 MR. ANDRE: Your Honor, he just read Your

492

Vigna - cross-examination

1 Honor's claim construction. He said, That's the claim  
 2 construction I used and this is my understanding of this  
 3 claim interpretation. He hasn't tried to change that.  
 4 THE COURT: You want to say that is not the  
 5 claim construction, not the interpretation, you used another  
 6 interpretation, your own interpretation?  
 7 MR. HOLDREITH: That's right.  
 8 THE COURT: But it is not based on this because  
 9 he never looked at this.  
 10 MR. HOLDREITH: Exactly.  
 11 THE COURT: He wouldn't have to, would he?  
 12 MR. HOLDREITH: I think it makes his parsing  
 13 impossible. There is one other issue, which is prosecution  
 14 history estoppel on this claim element. He testified to the  
 15 doctrine of equivalents yesterday.  
 16 THE COURT: Yes.  
 17 MR. HOLDREITH: And he found equivalent  
 18 infringement on this claim. I want to establish that he was  
 19 never told that this limitation was added by amendment, that  
 20 prosecution history estoppel prevents it.  
 21 MR. ANDRE: It is not for this witness. It is  
 22 unfair. This witness has never seen this document. This is  
 23 legal theory, legal conclusion.  
 24 THE COURT: I have a problem with what you want  
 25 to do. In theory, I think it is absolutely appropriate you

Vigna - cross-examination

1 need to do that, if you can. But I am concerned about  
2 getting mired in real minutiae, and you need to be  
3 concerned, all parties, about this jury's ability to follow  
4 what you are saying. It's already difficult enough. This  
5 is dense stuff.  
6 I think maybe if you can find another way to  
7 attack him on this, I would suggest that. I am concerned  
8 about this. He didn't use it. I am not going to let you  
9 reference it in your cross.  
10 If you have something that he is familiar with,  
11 that you think you can use, another way you can approach  
12 this?  
13 MR. HOLDREITH: I can't establish any other way  
14 that he did not consider this.  
15 THE COURT: You can say he didn't consider it.  
16 MR. HOLDREITH: I will just put it in the  
17 record.  
18 THE COURT: You can get that in.  
19 (End of sidebar conference.)  
20 BY MR. HOLDREITH:  
21 Q. Dr. Vigna, when we left off, I was asking you: Have  
22 you considered the prosecution history in this case in  
23 forming your understanding of hashing a downloadable and a  
24 fetched component together?  
25 A. I am sorry, I don't understand what you mean by

494

Vigna - cross-examination

1 "prosecution history."  
2 Q. In fact, if you were here for the video at the  
3 beginning of the Court, you saw there is a written record  
4 between the Patent Office --  
5 A. I wasn't here for the video. I think you have to  
6 explain to me a little bit.  
7 Q. I am not going to spend a lot of time on this.  
8 Is it fair to say you didn't look at this  
9 document, which is a statement by the patentee about what it  
10 means to hash things together?  
11 A. I don't think I read this document.  
12 Q. You weren't made aware that the patentee amended the  
13 claims to include a limitation about that?  
14 MR. ANDRE: Objection.  
15 THE COURT: I am going to sustain that  
16 objection.  
17 BY MR. HOLDREITH:  
18 Q. Now, Dr. Vigna, WebWasher never --  
19 THE COURT: You can take that down, please.  
20 MR. HOLDREITH: Yes, sir.  
21 BY MR. HOLDREITH:  
22 Q. WebWasher never takes a downloadable and a fetched  
23 component and puts them together and makes one hash of those  
24 two things together.  
25 Do you agree with that?

Vigna - cross-examination

1 A. Can you define "puts them together"?  
2 Q. Sure. It never takes the downloadable and the  
3 component, makes one string out of those, and runs a hash  
4 across that whole string to make one ID?  
5 A. It never does that.  
6 Q. What WebWasher does is there is a downloadable, it  
7 hashes the downloadable. Right?  
8 A. Yes.  
9 Q. And there is a component, it hashes the component  
10 separately. Right?  
11 A. Go ahead. I have to listen to the whole thing before  
12 I can say yes.  
13 Q. There is a separate hash for the downloadable and a  
14 separate different hash for the component?  
15 A. That's been referenced by the downloadable.  
16 Q. Right.  
17 A. For each of those, it will generate one hash.  
18 Q. So there is two hashes?  
19 A. Correct. If the two -- well, there are two hashes if  
20 the two components are different. If they are the same  
21 component, it will be the same hash.  
22 Q. Did you ever run an experiment where WebWasher  
23 downloaded a downloadable with a component that's identical  
24 to the downloadable?  
25 A. No. But I can see exactly when that would happen.

496

Vigna - cross-examination

1 Q. Even if you did that, you would still hash the  
2 downloadable first and generate a hash?  
3 A. Correct.  
4 Q. And download the component separately and generate a  
5 second hash?  
6 A. Correct.  
7 Q. All right. You made an analogy just now about  
8 labeling people in a room.  
9 A. Yes.  
10 Q. If you were going to generate an ID for people in a  
11 room together, you could take all of that collection of  
12 people and generate one ID that says, Here is the ID of that  
13 collection of people, couldn't you?  
14 MR. ANDRE: Your Honor, may we approach on this  
15 issue real quick? I am objecting to this line of  
16 questioning. Claim interpretation. I apologize.  
17 (The following took place at sidebar.)  
18 THE COURT: You know, encounter, we will never  
19 get through this witness.  
20 MR. ANDRE: Your Honor, I saw where we were  
21 going with this. This is the joint claim construction chart  
22 that we filed with the Court. The proposed construction  
23 they put forward is they were composed together during a  
24 single downloadable ID.  
25 The Court's claim interpretation got rid of the

Vigna - cross-examination

1 word "single," it said, Generate a downloadable ID. They  
 2 are going to try to get back to the single.  
 3 THE COURT: So you are reading his mind?  
 4 MR. ANDRE: That's where they are going.  
 5 THE COURT: Where are you going?  
 6 MR. HOLDREITH: Our understanding of your  
 7 construction is you put the two together and you make one ID  
 8 for both of them.  
 9 MR. ANDRE: That is the claim interpretation  
 10 that Your Honor rejected.  
 11 THE COURT: The order is what it is. Let's  
 12 stick to it. I rejected it. Let's not try to parse that.  
 13 It seems like you are agreeing that that is where you are  
 14 going. If that is where you are going, I am going to  
 15 sustain that objection.  
 16 Don't push it with me on that, okay? Let's stay  
 17 within the boundaries of the Court's claim construction  
 18 order and we will get through this nicely. I think you have  
 19 a lot of grist for your mill. You don't have to push the  
 20 envelope on this.  
 21 (End of sidebar conference.)  
 22 BY MR. HOLDREITH:  
 23 Q. Dr. Vigna, you identified hashing and WebWasher with a  
 24 cache-ing function. Is that right?  
 25 A. What I said is that a hash is used to generate an ID,

498

Vigna - cross-examination

1 which is then used as part of the cache-ing mechanism to  
 2 identify a downloadable.  
 3 Q. So, in WebWasher, when you were pointing out where  
 4 WebWasher hashes, you pointed to the cache-ing function. Is  
 5 that right?  
 6 A. Well, actually, if you remember, there are two caches  
 7 going on. There is the web page cache-ing, which is  
 8 something not related directly to security. It is just then  
 9 optimization of access to the net.  
 10 And there is the malware ProActive cache-ing,  
 11 which is based on storing for a certain amount of time our  
 12 presentation of the profile, as I said with a downloadable,  
 13 and that is indexed or identified using the hash.  
 14 Q. Exactly. And you can turn that hashing off in  
 15 WebWasher?  
 16 A. Let me check. I think you can.  
 17 Yes, I think you can.  
 18 Q. So the cache-ing is optional?  
 19 A. You can turn it off.  
 20 Q. All right. Dr. Vigna, now I would like to back up a  
 21 little bit and talk about how you did your analysis of  
 22 infringement in this case in general. Do you have that  
 23 question in mind? I will ask you some specific questions  
 24 about it.  
 25 A. Okay.

Vigna - cross-examination

1 Q. Now, I want to start with a background question. You  
 2 did not know of Finjan before your work in this case. Is  
 3 that right?  
 4 A. Correct.  
 5 Q. And you were retained to examine the claims and  
 6 compare them to some products and see if the products did  
 7 everything that is specified in Finjan's patent claims. Is  
 8 that right?  
 9 A. I was asked to give an objective opinion as to if the  
 10 WebWasher product was infringing those claims, correct.  
 11 Q. And you understand it's the claims that you compared  
 12 to WebWasher product?  
 13 A. Yes.  
 14 Q. That's what you did. You compared the claims to the  
 15 product?  
 16 A. I looked at the claims and I tried to find if, in the  
 17 product, there was anything that would infringe on those  
 18 claims.  
 19 Q. You did not compare the Finjan products to the  
 20 WebWasher product?  
 21 A. Absolutely not.  
 22 Q. In fact, you didn't study the Finjan products at all  
 23 as part of your work in this case?  
 24 A. I actually never saw a Finjan product.  
 25 Q. Now, I would like to show you Claim 1 of the '194

500

Vigna - cross-examination

1 patent. I will get a board so you can see it. I will  
 2 actually show you Claim 32, which is not the method, it is  
 3 the system.  
 4 This is one of the claims that you studied in  
 5 this case. Is that right?  
 6 A. Correct.  
 7 Q. And this claim, among other things, requires you to  
 8 find a server that serves as a gateway to a client?  
 9 A. Correct.  
 10 Q. It also requires you to find downloadable security  
 11 profile data pertaining to the downloadable; the  
 12 downloadable security profile data includes a list of  
 13 suspicious computer operations that may be attempted by the  
 14 downloadable. Right?  
 15 A. Correct.  
 16 Q. And it also requires you to find a downloadable  
 17 addressed to a client?  
 18 A. Again, correct.  
 19 Q. And you said, "Again, correct"? You didn't say  
 20 incorrect. Right?  
 21 A. It is correct, sorry.  
 22 Q. Those three limitations I just pointed out, those are  
 23 in every claim of the '194, aren't they?  
 24 A. To give, you know, a complete answer, I should review  
 25 the patent. I don't remember right now. I haven't



Vigna - cross-examination

Vigna - cross-examination

1 memorized every single claim. But those three things seem  
2 pretty important.  
3 Q. I will represent to you, those three are part of every  
4 claim in one way or another. Counsel can ask you questions  
5 if --  
6 A. I will take your word.  
7 Q. Now, you know there are dependent claims in the  
8 patent. Right?  
9 A. Correct.  
10 Q. I am going to show you one of those now.  
11 A. Okay.  
12 Q. This is the '194 patent we see right here. The same  
13 patent we are looking at. Right? And at the end of this  
14 patent, after all the drawings and all the written  
15 description, there are claims.  
16 This Claim 32 that we are looking at right now,  
17 it has a downloadable addressed to the client. Right?  
18 A. Yes.  
19 Q. It has the downloadable security profile data includes  
20 a list of suspicious operations that may be attempted by the  
21 downloadable. Right?  
22 A. Yes.  
23 Q. And it has a server that serves as a gateway to the  
24 client. Right?  
25 A. Yes.

1 BY MR. HOLDREITH:  
2 Q. You understand that if any of these three things are  
3 missing, a server that serves as a gateway to a client, a  
4 downloadable addressed to a client, or a list of suspicious  
5 computer operations, you understand this claim is not  
6 infringed?  
7 A. You mean Claim 32 plus 33?  
8 Q. That's right.  
9 A. Yes.  
10 Q. You understand, even if it has everything else, if  
11 just one of those is missing, the claim is not infringed?  
12 A. Correct.  
13 Q. You operated a WebWasher appliance, Dr. Vigna?  
14 A. Yes.  
15 Q. And you looked at WebWasher source code?  
16 A. Yes.  
17 Q. There is another product in this case called  
18 CyberGuard TSP that you have accused of infringement. You  
19 are aware of that?  
20 A. Yes.  
21 Q. You never operated a CyberGuard TSP appliance?  
22 A. I never did.  
23 Q. And you never looked at the source code for a  
24 CyberGuard TSP appliance?  
25 A. I reviewed the source code for WebWasher, which is

502

Vigna - cross-examination

1 Q. Now, there is a dependent claim right underneath that,  
2 Claim 33, it says, The system of Claim 32, then it adds,  
3 wherein the downloadable includes a Java applet. Right?  
4 A. Yes.  
5 Q. You understand when it says "the system of Claim 32,"  
6 that means Claim 33 has to have everything that is in Claim  
7 32 plus what's in 33?  
8 A. Correct.  
9 Q. So in the dependent claims, it's not enough to just  
10 find there is an ActiveX control, you still have to find the  
11 downloadable addressed to the client, the suspicious  
12 computer operations in a list, and the server that serves as  
13 a gateway to the client?  
14 A. Correct.  
15 Q. And that's how you did your analysis?  
16 A. Yes. That's my understanding.  
17 Q. And you understand that if WebWasher is missing any  
18 one of those three things, none of the claims of this '194  
19 patent are infringed?  
20 MR. ANDRE: Objection, Your Honor. He is  
21 talking about one claim here, not every claim being  
22 asserted.  
23 THE COURT: Why don't you rephrase that  
24 question, Mr. Holdreith.  
25 MR. HOLDREITH: Sure.

504

Vigna - cross-examination

1 included in the CyberGuard appliance, as far as I know.  
2 Q. But you didn't review all of the source code for the  
3 CyberGuard TSP appliance, did you?  
4 A. Other than WebWasher included in that product, no.  
5 Q. Okay.  
6 A. I reviewed the code for a few different versions of  
7 WebWasher product, which is part of CyberGuard. So I kept  
8 myself with that part. And if there is other functionality  
9 in the CyberGuard TSP that does other stuff, I haven't  
10 reviewed that other functionality because it seemed not  
11 relevant for this particular opinion on this infringement.  
12 Q. Dr. Vigna, you know that, as a general matter, in  
13 software, software can be locked so that it is unavailable  
14 to the user without a key or code or a license or something  
15 like that?  
16 A. In general, there are ways to make software inoperable  
17 unless you have a key.  
18 Q. And on CyberGuard TSP, you never did anything to  
19 evaluate whether WebWasher code on that appliance is locked  
20 and unavailable to the client?  
21 A. I did not.  
22 Q. And do you know, from your review of documents in this  
23 case, whether WebWasher on TSP is locked and unavailable to  
24 the client?  
25 A. I know that it is part of that particular product.

Vigna - cross-examination

- 1 And I don't have details about what is available or not  
2 available and what are the options that a user has, because,  
3 in general, when you have a product that has multiple  
4 pieces, you can sell it to a user and say, Okay, this is the  
5 product and then the user can get all the code. Then,  
6 depending on what the user pays in terms of fees, it will  
7 activate a certain functionality or another.  
8 I cannot review the marketing plan of anybody to  
9 decide what really will be activated or not.  
10 My information that I got is that WebWasher was  
11 part of the CyberGuard TSP, and also that since the patent  
12 contains a thing that says if it is in storage, then it is  
13 also infringing, that was sufficient to formulate my  
14 opinion.  
15 Q. Okay. But, Dr. Vigna, my specific question is: You  
16 never evaluated whether WebWasher is locked and unavailable  
17 to the client on CyberGuard TSP?  
18 A. For which configuration of the CyberGuard product?  
19 Q. We are asking about the CyberGuard TSP appliance. You  
20 understand that?  
21 A. Yes.  
22 Q. You just told us you didn't operate that appliance?  
23 A. Absolutely.  
24 Q. You didn't look at the source code for CyberGuard TSP?  
25 A. Okay. Again, I looked at the source code of part of

506

Vigna - cross-examination

- 1 CyberGuard TSP, which is WebWasher part.  
2 Q. Fair enough. You didn't look at the source code for  
3 all of CyberGuard TSP?  
4 A. That's correct. For whatever is not WebWasher, I  
5 didn't analyze that code.  
6 Q. Okay. You are not offering any opinion in this case  
7 whether or not CyberGuard TSP locks WebWasher and makes it  
8 unavailable to the client?  
9 A. Yeah. I don't know that.  
10 Q. You understand that ProActive scanning -- and that's  
11 what you looked at in this case, really, isn't it?  
12 ProActive scanning?  
13 A. I looked at in this case different things. I looked  
14 at ProActive scanning. I looked at the generation of IDs.  
15 I looked at, you know, sandboxing and code mitigation. I  
16 looked at different things.  
17 Q. Let me ask you about ProActive scanning in particular  
18 right now.  
19 Did you do anything to determine whether  
20 ProActive scanning is a separate module of WebWasher that  
21 has to be paid for separately and licensed to the client?  
22 MR. ANDRE: Objection, Your Honor. Outside the  
23 scope of this witness' testimony.  
24 THE COURT: Rephrase.  
25 BY MR. HOLDREITH:

Vigna - cross-examination

- 1 Q. You don't have any opinions in this case about whether  
2 ProActive scanning is a locked module that requires a  
3 separate license?  
4 A. No.  
5 THE COURT: That's sustained. Asked and  
6 answered.  
7 MR. HOLDREITH: Yes, sir.  
8 BY MR. HOLDREITH:  
9 Q. You were not asked in this case to identify any actual  
10 users of WebWasher, you didn't point to a particular person  
11 and say, Here is a company that uses WebWasher?  
12 A. No.  
13 Q. You formed an opinion that WebWasher categorizes  
14 behavior of downloadables. Is that fair?  
15 A. My opinion was that WebWasher produces a profile that  
16 describes the possible actions that a downloadable can  
17 perform, correct.  
18 Q. All right. Now, I want to focus on this '194 patent.  
19 In particular, on the list of suspicious operations. All  
20 right?  
21 A. Yes.  
22 Q. You said that WebWasher meets this claim element  
23 because it implements a ProActive scanning approach. Isn't  
24 that right?  
25 A. Are you referring only to the list of suspicious

508

Vigna - cross-examination

- 1 operations?  
2 Q. Right.  
3 A. So my finding was that the process of ProActive  
4 scanning includes analyzing a downloadable, decomposing it,  
5 and extracting a list of categories of possible behavior.  
6 Q. Exactly. So when you looked for a list, you found it  
7 in the ProActive scanning portion of WebWasher. That's  
8 where you found the list?  
9 A. You want to know technically the module in which I  
10 found it?  
11 Q. You said ProActive scanning in your report?  
12 A. It is part of the ProActive scanning process.  
13 Q. Exactly. You said it is a list of categories of  
14 behavior. Is that right?  
15 A. Correct.  
16 Q. Now, you referred to a description of ProActive  
17 scanning in the WebWasher step-by-step guide. Do you  
18 remember that?  
19 A. If you can refresh my memory with the exact place, I  
20 will be happy to remember better.  
21 Q. I have now put on the screen Plaintiff's Trial Exhibit  
22 No. 12, which is WebWasher Proactive Step-by-Step Guide.  
23 You referred to this document in your report and  
24 in your testimony. Right?  
25 A. I believe so. If it's listed in my testimony, then I

Vigna - cross-examination

Vigna - cross-examination

1 read it.

2 Q. You remember testifying about this document yesterday?

3 A. Yeah. You know, I will say that the documents that

4 are reviewed, there were several documents with exactly the

5 same title and similar variations. Whenever I see something

6 popping up, I cannot immediately say, Oh, yes, that is the

7 version that I just talked about. I want to be precise.

8 That is my only concern.

9 Q. Then let's look at the language. You referred to this

10 language in the step-by-step guide about behavioral

11 heuristics in your testimony. Right?

12 A. Yes.

13 Q. And, Dr. Vigna, this is where you find the list of

14 categories of behaviors. Is that right?

15 A. Yeah. Classified a defective operation or behaviors

16 using a set of context-sensitive heuristic rules.

17 Q. And you relied on this document?

18 A. Yes. That was part of the document that I used to

19 form my opinion.

20 Q. And this document, in your opinion, is an accurate

21 description of how WebWasher's ProActive scanning works?

22 A. Actually, the only accurate description is the code

23 itself. This is, I guess, a white paper. So, as I said

24 before, this is a mix of technical information and

25 simplifications that are introduced in order to make the

510

Vigna - cross-examination

1 matter more understandable. So sometimes it is not, you

2 know, technically, technically precise. My role as an

3 expert is to read this, read the code, look at the appliance

4 and try to figure out what's really going on. That's what I

5 write about.

6 Q. Dr. Vigna, when you relied on this description in the

7 step-by-step guide, you didn't have any disagreements with

8 it, did you?

9 A. A disagreement? I don't think that they are lying

10 here.

11 Q. Now, you said that WebWasher uses category flags to

12 characterize the behavior of a downloadable. Is that right?

13 A. Yeah. I put category flags in quotes.

14 Q. And you looked at some other documents yesterday. Let

15 me just ask you: There is a more detailed description here

16 of behavioral heuristic in WebWasher. Right?

17 A. Yes.

18 Q. And this is a description of ProActive scanning in

19 WebWasher?

20 A. Correct.

21 Q. And it's a description of how WebWasher categorizes

22 behavior. Right?

23 A. Wait a moment.

24 Yes, it describes how WebWasher analyzed the

25 functions and extracts this list of possible actions,

1 behaviors.

2 Q. This description continues on the next page. This is

3 just more detail on how WebWasher categorizes behaviors?

4 A. Okay.

5 Q. Is that right?

6 A. Yes. It says that, you know, as more rule matches,

7 more behaviors are added to the list.

8 Q. Do you see on this document there is some lines that

9 are in a box that's called Picture 8?

10 A. Correct.

11 Q. Would you agree with me those are lines in a

12 downloadable that WebWasher is looking at?

13 A. Well, actually, in this particular description, it

14 says that it's an example layout of a sliding context. It's

15 not very clear what it is. It doesn't explain what FC and

16 PV are. So it's difficult to say precisely what this figure

17 means.

18 Q. You don't know that function -- FC refers to function

19 calls?

20 A. Correct, function calls.

21 Q. And PV refers to parameter values?

22 A. Right.

23 Q. And this is a picture of some function calls and

24 parameter values in a downloadable?

25 A. Is that what you know, that that is the case?

512

Vigna - cross-examination

1 Q. You don't know?

2 A. I am getting from you the information that "FC" is

3 function call and "PV," parameter values. But it makes

4 sense.

5 Q. You are the expert, Dr. Vigna.

6 A. I just don't want to give an opinion to something that

7 is not clear. You are giving me the information about how I

8 should interpret this picture. I am glad to within the

9 context, if you are giving me that information.

10 Q. In any event, this is part of the description of

11 behavioral heuristics that you relied on in this case.

12 Right?

13 A. Yes.

14 Q. This page here does not anywhere say that you make a

15 list, does it?

16 A. I cannot read the printing on the figure. So if you

17 absolutely assure me that in the little wording on the

18 figure there is never the word "list," I would say, yes, on

19 that page, the word "list" never appears.

20 Q. I want to highlight something else for you here,

21 Dr. Vigna, if I can do this correctly.

22 This is a figure which depicts operations of

23 WebWasher's scanning. Isn't that right?

24 A. Yes. It says that these are the main parts of the

25 anti-virus filtering process web.

Vigna - cross-examination

Vigna - cross-examination

1 Q. And WebWasher is represented by all of these things  
2 happening between this wall here and this wall here. Is  
3 that right?  
4 A. I think this is correct.  
5 Q. Bear with me, Dr. Vigna. I want to look at some of  
6 these documents that you looked at yesterday with counsel.  
7 I am going to walk through them.  
8 This is another document that you explained in  
9 your testimony yesterday. Is that right?  
10 A. I think so.  
11 Q. I am now showing you on Plaintiff's Exhibit 9, Page  
12 11.  
13 A. Yes.  
14 Q. This is a depiction of the ProActive scanning function  
15 of WebWasher. Is that right?  
16 A. Yes.  
17 Q. And there is a description on this page of ProActive  
18 scanning that says it's a two-tiered filter that blocks  
19 program code based on its potential behavior, there is more  
20 of it, but it says that. Right?  
21 A. Yes.  
22 Q. And then it says, And mitigates suspicious script code  
23 before transport to the client computer. Right?  
24 A. Yes. Actually, I would say, with respect to our  
25 documentation that we have seen, it is more encompassing

514

Vigna - cross-examination

1 description most of the time, ProActive scanning, in the  
2 documents that I reviewed, it refers exclusively to the  
3 scanning of the downloadable to identify the list of  
4 suspicious categories of behavior. And in this case, I  
5 think it is presented by adding the aspect of the sandboxing  
6 all together. But I think it's, most of the time I see the  
7 two things separately.  
8 Q. Let's just clarify that so we understand what you are  
9 saying.  
10 I think you are pointing out that there are two  
11 functions here. One is categorizing potential behavior.  
12 Right?  
13 A. Correct.  
14 Q. And another one is mitigating suspicious script code?  
15 A. Yes. As far as I understand, the first part is the  
16 parts that we refer to, ProActive scanning, and the part  
17 that is directly mapped on the '194 patent. While the  
18 second part is the one that we call sandboxing or script  
19 code mitigation. And it is the one that infringes the '822  
20 patent.  
21 Q. Right now we are talking about the '194 patent.  
22 That's the categorizing behavior part of this?  
23 A. Yes.  
24 Q. And when we talk about the '822 patent, which is  
25 sandboxing, that is where you talk about script code

1 mitigation?  
2 A. Correct.  
3 Q. Two different things?  
4 A. Yes.  
5 Q. There is another document you looked at with counsel.  
6 This is Plaintiff's Exhibit 10. It's called, WebWasher  
7 Mobile Code Filter-Detection and Classification of Malicious  
8 Mobile Code. You looked at this document, didn't you?  
9 A. Yes.  
10 Q. On this document, you pointed out, I think, the title  
11 page here, with the description of WebWasher's mobile code  
12 filter?  
13 A. Yes.  
14 Q. Now, this description talks about performing a  
15 heuristic analysis. Right?  
16 A. Yes.  
17 Q. And it talks about blocking program code based on its  
18 potential behavior?  
19 A. Correct. That's what I call ProActive scanning.  
20 Q. That is ProActive scanning?  
21 A. Yes.  
22 Q. That was my question.  
23 A. Here it is referring to mobile code filter, right,  
24 which is the whole thing.  
25 Q. The heuristic analysis is part of categorizing the

516

Vigna - cross-examination

1 behavior. Would you agree with that?  
2 A. I do agree with that.  
3 Q. Now, on this Plaintiff's Exhibit 10, you also looked  
4 at this page with counsel, I believe. This page says that  
5 WebWasher's mobile code filter performs a heuristic analysis  
6 that the gateway blocks, unblocks program code based on its  
7 potential behavior?  
8 A. Yes.  
9 Q. You agree that is what WebWasher does?  
10 A. I think the ProActive scanning, which is described  
11 here as a part of the filter is in WebWasher and is directly  
12 mapped to the '194 patent.  
13 Q. We looked through a number of documents yesterday and  
14 you testified about a number of documents that have similar  
15 description to this, didn't you?  
16 A. That is sort of a vague question. So can you be more  
17 specific?  
18 Q. Fair enough.  
19 You pointed to a number of documents yesterday  
20 that explain that WebWasher uses heuristic rules to  
21 categorize behavior?  
22 A. Especially code, which is, you know, most direct  
23 representation of what an application does.  
24 Q. All right. Now, none of those documents said the  
25 words, "WebWasher creates a list of suspicious computer



Vigna - cross-examination

1 operations." Right?

2 A. I cannot answer that question because I should go back  
3 and check every document, see if they have or don't have the  
4 exact wording list of suspicious behavior. I don't know.  
5 My understanding is it does generate a list of suspicious  
6 behavior.

7 Q. You understand this claim requires a list of  
8 suspicious computer operations?

9 A. Correct. And in my opinion, in my understanding, that  
10 was determined by analyzing different sources, not only the  
11 documentation, but also the source code and operating the  
12 appliance.

13 I saw the generation of a list of suspicious  
14 behavior. For example, when I used the appliance, I showed  
15 you, and everybody else, how, for certain types of  
16 downloadables, you have a list that included writing to a  
17 file or reading from a file and so forth. And that, for me,  
18 is a list of suspicious behavior.

19 Q. In this case, you didn't find any WebWasher  
20 descriptions that used the words, "a list of suspicious  
21 computer operations." Is that fair?

22 A. Sincerely, I do not remember if the exact word list is  
23 in the documentation, which is White Papers, presentation,  
24 manuals.

25 As an expert, I look at the code, I look at the

518

Vigna - cross-examination

1 documents, and the appliance itself, and I say, Okay, this  
2 is obviously a list of suspicious operation. And that's my  
3 understanding.

4 Q. I apologize, I don't want to belabor this, if I didn't  
5 ask a clear question. I am asking about the whole phrase.

6 You didn't find the phrase "list of suspicious  
7 computer operations" in any WebWasher description, did you?

8 A. And my precise answer is, at this point, I cannot tell  
9 you yes or no, because I should go back, review every single  
10 document looking for that particular wording of what I  
11 recognize in the product.

12 Q. Fair enough.

13 Dr. Vigna, you are aware of a definition in  
14 computer science of a link -- let me start that question  
15 over.

16 You are aware of a definition of list in  
17 computer science, which is a linked list?

18 MR. ANDRE: Objection, Your Honor. Outside the  
19 scope of this witness' testimony.

20 THE COURT: You can answer the question.

21 THE WITNESS: Okay. In computer science, there  
22 is a concept of a list, which is generic data structure,  
23 which is a sequence of elements. And you want to represent  
24 a list of it. The concept of a list can be implemented in  
25 different ways. For example, a linked list that you just

519

Vigna - cross-examination

1 mentioned is one possible way to implement the list. A

2 double linked list is another way to represent a list.

3 You can use something else called a tree to  
4 represent a list. You can use, for example, something like  
5 a bit map to represent a list or a set of flags organized in  
6 a bit map to represent a list.

7 Actually, funny that you mentioned that, but  
8 after I read some days ago Ben Wallach's rebuttal to my  
9 concept of what a list is, I went and looked at assignments  
10 in computer science classes. And there are assignments that  
11 I found that say, Okay, here is a list, implement it in two  
12 ways, as a bit map, as a set of flags, that is, or as a  
13 linked list, showing that the concept of a list can actually  
14 be implemented in many different ways.

15 Q. I am not sure if you are agreeing with me or not.

16 There is a definition of "list" in computer  
17 science, which is a linked list?

18 A. No. I mean, if you put it that way, I have to say no.

19 There is the concept of a list, which is an abstract  
20 concept, and then there is one possible implementation of  
21 that concept, that is a linked list. So it would be like  
22 you ask me, Oh, there is a car, and the car can only be with  
23 a diesel model. I will say, No, it can be a car, generic  
24 concept, it can be implemented as an electric car, it can be  
25 implemented as a diesel car, it can be implemented as a, you

520

Vigna - cross-examination

1 know, normal petrol car.

2 Q. Exactly. Now, what I am trying to ask you, Dr. Vigna,  
3 is when you looked for a list in WebWasher, you did not  
4 limit your search to a search for a linked list; is that  
5 fair?

6 A. That is correct. I was looking for something that  
7 represents a list of suspicious operations, regardless of  
8 how it is implemented.

9 Q. Now, a linked list, let's understand what that is,  
10 that is a list that can have any number of items on it. Is  
11 that right?

12 A. That's not correct.

13 Q. Can't a linked list have one or a hundred or a  
14 thousand items?

15 A. Depending on how it is implemented. I mean, the  
16 concept of a linked list -- what is your question? Do you  
17 want me to explain to you what a linked list is?

18 Q. No. I am just asking you if a linked list is  
19 something that can have an undefined number of members on  
20 it?

21 A. That depends on how that linked list is implemented.  
22 I can put together, if you give me 20 minutes, a linked list  
23 that has a limited number of elements.

24 Q. A linked list can have, depending on how you implement  
25 it, one or a hundred or a thousand or a million numbers?

Vigna - cross-examination

- 1 A. Absolutely, depending on how you implement it.
- 2 Q. That is not the definition that you used for a list in
- 3 this case?
- 4 A. What I used in this case is the generic concept, the
- 5 high-level concept of a list, like a sequence or something
- 6 like that.
- 7 Q. Do you agree or disagree with this statement: The
- 8 list in the '194 patent is a data object such as a linked
- 9 list?
- 10 MR. ANDRE: Objection, Your Honor. He is asking
- 11 for claim interpretation.
- 12 MR. HOLDREITH: I am asking for the basis of the
- 13 witness' infringement analysis.
- 14 THE COURT: Rephrase the question.
- 15 BY MR. HOLDREITH:
- 16 Q. When you did your infringement analysis, Dr. Vigna,
- 17 did you use the definition of list that it is an object such
- 18 as a -- a data object such as a linked list?
- 19 MR. ANDRE: He is asking for claim
- 20 interpretation at this time, Your Honor.
- 21 THE COURT: Is that what you are asking?
- 22 MR. HOLDREITH: No, sir. The foundation for his
- 23 infringement opinion. I want to know what definition he
- 24 used.
- 25 THE COURT: Why don't you ask him that.

522

Vigna - cross-examination

- 1 BY MR. HOLDREITH:
- 2 Q. What definition of list did you use in your
- 3 interpretation of the '194 patent?
- 4 A. I used the abstract concept of list of elements. So
- 5 in layman's term, it would be like a grocery list, like a
- 6 sequence of elements that are represented. I wasn't looking
- 7 for any specific implementation of that list.
- 8 Q. It's fair to say that definition uses other kinds of
- 9 lists other than a data object that's a linked list?
- 10 A. I don't understand the question. Can you rephrase it?
- 11 THE COURT: That's fine.
- 12 BY MR. HOLDREITH:
- 13 Q. It's fair to say, you interpret "list," it can be any
- 14 kind of list?
- 15 A. Yes, it's a list.
- 16 Q. When it comes time to decide if there is a list in the
- 17 prior art, your definitions would say, Let's see if there is
- 18 any kind of price list in the prior art?
- 19 MR. ANDRE: Objection, Your Honor. This witness
- 20 is not talking about the prior art in this case.
- 21 THE COURT: Sustained.
- 22 BY MR. HOLDREITH:
- 23 Q. Now, Dr. Vigna, the list in this case is specifically
- 24 a list of suspicious computer operations that may be
- 25 attempted by the downloadable. Right?

Vigna - cross-examination

- 1 A. That is correct.
- 2 Q. And one way to make that list is you look at the
- 3 downloadable, you see some suspicious computer operations in
- 4 the downloadable, and you go write them down on a list?
- 5 A. I didn't understand what you are asking me.
- 6 Q. One way you could make a list of suspicious computer
- 7 operations that may be attempted by a downloadable is you
- 8 look at the downloadable, you look for computer operations,
- 9 and you write those computer operations onto a list?
- 10 A. I can only answer what WebWasher does. If you ask me
- 11 potentially what you can do, given, you know, generic
- 12 directions, well, there is an infinite possibility of how
- 13 you can do things. Actually, I can prove that there are
- 14 infinite ways to do exactly what you are asking. If you are
- 15 asking me if WebWasher does that?
- 16 Q. No. I am asking you if there is one way you can make
- 17 a list --
- 18 A. There are infinite ways of doing that.
- 19 Q. Is that one way of doing it?
- 20 A. Since they are infinite, that is definitely one.
- 21 Q. Now, I want to ask you something about the patent
- 22 itself.
- 23 You read the '194 patent?
- 24 A. I did.
- 25 Q. You read the whole thing cover to cover?

524

Vigna - cross-examination

- 1 A. I did.
- 2 Q. There is a lot of text and drawings in there?
- 3 A. Yes.
- 4 Q. Here is the patent. You recognize this as the '194
- 5 patent?
- 6 A. Yes.
- 7 Q. There is a statement that I would like to show you in
- 8 the patent about a list. I just lost my place. Give me a
- 9 moment to catch up.
- 10 A. Yes.
- 11 Q. Without going through the patent in its entirety, let
- 12 me ask you a general question. Do you know there is a
- 13 statement in the patent that says, You make a list of all
- 14 suspicious operations the downloadable may attempt?
- 15 A. Are you asking me if within the patent -- I should
- 16 check. I don't remember. I haven't memorized the patent.
- 17 Q. When you did your infringement analysis, did you base
- 18 your infringement analysis on the list meaning to include
- 19 all suspicious operations the downloadable may attempt?
- 20 A. My analysis is based on the claims because that is the
- 21 only thing, as far as I understand, that matters.
- 22 You are referring to this particular claim here,
- 23 32?
- 24 Q. That is fine, sure.
- 25 A. Let me read what it says.

Vigna - cross-examination

Vigna - cross-examination

1 A list, there is a typo, A list of suspicious  
2 computer operations that may be attempted. That's what I  
3 tried to find in WebWasher, and I found a list of suspicious  
4 computer operations that may be attempted.  
5 Q. The claim doesn't say "a list of all suspicious  
6 computer operations"?  
7 A. That claim doesn't say that.  
8 Q. And you don't interpret it to require that the list  
9 have all suspicious computer operations?  
10 A. Correct. It says "a list of suspicious operations."  
11 Q. So if another expert testifies in this Court that the  
12 list must include all suspicious computer operations, you  
13 would disagree with that?  
14 MR. ANDRE: Objection, Your Honor.  
15 THE COURT: Basis?  
16 MR. ANDRE: Completely hypothetical.  
17 THE COURT: You can answer the question.  
18 THE WITNESS: Can you re-ask it?  
19 BY MR. HOLDREITH:  
20 Q. Sure. If another expert comes into court and  
21 testifies that you must make a list of all suspicious  
22 computer operations, you would disagree with that?  
23 A. So, you are saying that an expert will come here and  
24 say, In order to infringe, you have to have all suspicious  
25 operations, then I would disagree with that.

1 checkmark that says, This downloadable fits into the  
2 category, it might do read/access to local files. Is that  
3 right?  
4 A. That's not really correct. What happens is that there  
5 is associated to the downloadable a list of possible  
6 behaviors. And whenever the write access is found, that  
7 behavior is added to the list.  
8 Q. But the flags correspond to these behaviors, don't  
9 they?  
10 A. The flags are an implementation of this list of  
11 possible behaviors.  
12 Q. So if you see that this downloadable fits in a  
13 category, you set a flag?  
14 A. In the list of behaviors, you put, you checkmark that  
15 particular element of the list.  
16 Q. The list you are talking about is a list of these  
17 categories. Right?  
18 A. I am talking about the list of possible behaviors  
19 associated with a certain downloadable. There is a data  
20 structure that is used to describe the list of possible  
21 behaviors for that downloadable. Whenever one of those  
22 behaviors is found, it is added to the list.  
23 Q. What I am showing you here on Plaintiff's Exhibit 11,  
24 these are categories. Right?  
25 A. Categories of behavior, correct.

526

Vigna - cross-examination

1 Q. Now, I would like to ask you about these category  
2 flags, Dr. Vigna.  
3 A. Go ahead.  
4 Q. I am going to show you Plaintiff's Exhibit 11, which I  
5 think you looked at yesterday. This is the Secure Computing  
6 WebWasher Proactive Scanning Step-By-Step Guide White Paper.  
7 Do you remember you looked at this?  
8 A. Yes.  
9 Q. I am going to look at Page 15 with you. Here it is.  
10 Now, these are categories that WebWasher uses to categorize  
11 a downloadable, Read/write access to local files, for  
12 example?  
13 A. Yes. These are categories of behavior.  
14 Q. And these flags characterize how the downloadable  
15 might behave?  
16 A. Where do you see flags?  
17 Q. I am sorry. Are there flags in WebWasher that  
18 correspond to these categories?  
19 A. In WebWasher, what has been done is that the functions  
20 are extracted, the heuristic rules are applied, and these  
21 categories of behavior are identified.  
22 And there is a checkmark, there is a big flag,  
23 data structure in memory that represents that that  
24 particular behavior is present in the list.  
25 Q. When WebWasher does what you just said, it's making a

528

Vigna - cross-examination

1 Q. When you check a box, you are checking a box for a  
2 category. Right?  
3 A. What do you mean by "checking a box"?  
4 Q. You said that WebWasher checks a box.  
5 A. No. I am saying that there is a list which is  
6 implemented as a bit map, which is an implementation detail.  
7 So the category is added to the list and that is the  
8 high-level definition of what happens.  
9 In practice, you know, this category is out of  
10 the list, yes. This downloadable is writing to a file. If  
11 you look down how the actual implementation of that list is  
12 made, that, technically speaking, is a bit map, which is a  
13 series of ones and zeros, to represent if an element is part  
14 or not of the list. And in that particular case, bit of one  
15 is put in the position in the list corresponding to that  
16 particular behavior.  
17 That is my technical understanding.  
18 Q. I don't want to get stuck on the distinction between a  
19 checkmark around a bit that is set to zero or one. The  
20 question I want to ask is what is on what you call a list is  
21 a behavior, that is one of these categories shown on this  
22 Plaintiff's Exhibit 11?  
23 A. Can you ask me a precise question? I don't understand  
24 what you are asking.  
25 Q. Sure. You just described, There is what you call a

Vigna - cross-examination

- 1 list, a bit map?
- 2 A. Correct. Implemented as a bit map.
- 3 Q. In the bit map, you could set a bit to one or zero,
- 4 depending on whether that category is something you want to
- 5 flag?
- 6 A. Flag, I mean, if you add to the list that particular
- 7 behavior, you add it.
- 8 You add this to the list of possible behaviors.
- 9 So it is part of the list.
- 10 What I am saying is that behind the curtains,
- 11 and, so, it's in the way in which it is implemented, which
- 12 is one of the possible choices to implement this, it happens
- 13 to be a bit map. So you will see a one appearing in a data
- 14 structure, a 32 bit integrated, if I remember correctly, in
- 15 memory, will be set to one. As far as I am concerned, that
- 16 is the implementation of the list.
- 17 Q. I hear you answering me about the bit map. What I
- 18 intend to ask about is what is the bit map flagging.
- 19 Is it one of these categories shown on
- 20 Plaintiff's Exhibit 11?
- 21 A. Seriously, I don't understand -- okay. What do you
- 22 mean by "flag" and "check box"?
- 23 I don't understand. I want to answer you. But
- 24 you are asking me if these categories are part of the list
- 25 of behaviors? I don't understand, sincerely, what you are

530

Vigna - cross-examination

- 1 precisely asking me.
- 2 Q. You have talked about a list of categories of
- 3 behavior. Is that fair?
- 4 A. Correct.
- 5 Q. The categories of behavior that go on that list, are
- 6 they these categories that are found on Plaintiff's Exhibit
- 7 11, which is up on the screen here?
- 8 A. I mean, these are examples. And I showed in the code,
- 9 I think it was, you know, rule data was dot H file, there
- 10 are the exact set of possible categories of behavior that
- 11 will be put in the list of behavior associated with one
- 12 particular downloadable.
- 13 Q. So what WebWasher is putting on that thing that you
- 14 call a "list" is one or more categories. Is that fair?
- 15 A. Yes. WebWasher looks at the downloadable, extracts
- 16 the functions, and then, using the rules, says, Okay, if you
- 17 do this particular function and maybe this other particular
- 18 function, then I will add to the list of possible behaviors
- 19 for this downloadable this particular category, like write
- 20 to the registry. That's what happens.
- 21 Q. Now, you gave an example yesterday, which is written
- 22 on that flip chart right over there in the corner. Right?
- 23 A. Yes.
- 24 Q. In that example, you said there was a downloadable --
- 25 MR. HOLDREITH: Your Honor, may I approach?

Vigna - cross-examination

- 1 THE COURT: Yes.
- 2 MR. HOLDREITH: Thank you.
- 3 BY MR. HOLDREITH:
- 4 Q. Dr. Vigna, can you see all right?
- 5 A. Yes.
- 6 Sorry for the shoulder, Your Honor.
- 7 THE COURT: That is okay.
- 8 BY MR. HOLDREITH:
- 9 Q. This is the drawing that you made yesterday. Correct?
- 10 A. Yes.
- 11 Q. And you are showing here how the '194 patent works.
- 12 Correct? You are not sure?
- 13 A. No. I mean, what I am describing here is actually
- 14 what WebWasher does.
- 15 Q. This is how WebWasher works?
- 16 A. Yes.
- 17 Q. All right. There is a downloadable. WebWasher looks
- 18 in the downloadable, and it sees, what is this?
- 19 A. FWrite.
- 20 Q. What is FWrite?
- 21 A. It is one function.
- 22 Q. It is a function. What is this?
- 23 A. FRead.
- 24 Q. What is FRead?
- 25 A. It's another function.

532

Vigna - cross-examination

- 1 Q. And what is this?
- 2 A. It's W reg. These are just examples I made up.
- 3 FWrite and FRead are actually used in the C code. So it is
- 4 one particular example of the low level functions that I was
- 5 trying to explain. Those could be a different type,
- 6 different type of downloadables.
- 7 Q. WebWasher, in your opinion, looks at these functions?
- 8 A. And their parameters.
- 9 Q. And it uses heuristic rules?
- 10 A. Correct.
- 11 Q. To decide whether there is a category?
- 12 A. Whether the download has that type of behavior in the
- 13 list of possible behaviors.
- 14 Q. There are multiple functions or multiple conditions
- 15 that can lead to a category such as write files in
- 16 WebWasher?
- 17 A. Well, it depends on the rules that you have there.
- 18 But you have, in my understanding, two types of rules. You
- 19 have atomic rules that, as far as I understand, just map one
- 20 function to one particular behavior. Then you have
- 21 composite rules that might involve more than one function
- 22 that leads to a particular behavior.
- 23 Q. You know there are lots of different ways to implement
- 24 writing to a file?
- 25 A. Correct.



Vigna - cross-examination

1 Q. There are lots of different functions you can use  
 2 alone or in combination --  
 3 A. Correct.  
 4 Q. -- that write to a file?  
 5 A. Yes.  
 6 Q. Now, when WebWasher creates a category that says,  
 7 Write to files from this downloadable, it never copies this  
 8 function FWrite onto a list. Would you agree with that?  
 9 A. You don't copy it to a list. What WebWasher does, it  
 10 sort of decomposes and parses a downloadable, extracts its  
 11 functions. And it applies the rules to determine if a  
 12 certain category of behavior is part of the downloadable. I  
 13 don't know if it copies that somewhere else.  
 14 Definitely with respect to the list of possible  
 15 suspicious operations, there is no copying of the low-level  
 16 function into -- let me rephrase that.  
 17 So what WebWasher does is to decompose the  
 18 downloadable, or, I should say, parse it, and extract the  
 19 low-level functions, then apply either atomic or composite  
 20 rules to determine if certain categories of behavior are  
 21 associated with the downloadable.  
 22 And then I was asked if the low-level function  
 23 is copied directly in the list of suspicious operations, and  
 24 as far as I understand, there is no direct copying of that  
 25 function in that list.

534

Vigna - cross-examination

1 Q. So these are the categories of behavior in WebWasher.  
 2 Right?  
 3 A. Right. Those are just examples.  
 4 Q. These are examples of categories of behavior in  
 5 WebWasher?  
 6 A. Correct.  
 7 Q. And if you know that the category "Write Files"  
 8 pertains to a downloadable in WebWasher, that does not tell  
 9 you what function or combination of functions are in the  
 10 downloadable, what specific functions were in that  
 11 downloadable?  
 12 A. So I know that that category has been determined by  
 13 taking those functions and applying some rules. I don't  
 14 understand what you are asking me.  
 15 Q. Sure. If all you know is, I have a downloadable, and  
 16 WebWasher has decided it's in the category of behavior of it  
 17 might write to a file?  
 18 A. Correct.  
 19 Q. That's all you know?  
 20 A. Suppose I know only that?  
 21 Q. Are you with me so far?  
 22 A. Yes.  
 23 Q. From that information, you do not know what functions  
 24 were in that downloadable?  
 25 A. What I would know is, of course, I would need the

Vigna - cross-examination

1 rules. And I could sort of go backwards in the rules and  
 2 find all the rules in the rules that are possibly applied  
 3 that would result in write files.  
 4 By looking at the precondition of those  
 5 applicable rules, I would find what are the possible  
 6 candidates that were in the downloadable that might have led  
 7 to that particular behavior.  
 8 Q. There are many, many candidates for any given category  
 9 of what the functions are that might have led to that  
 10 behavior?  
 11 A. Many, many is a little imprecise. I would say it  
 12 depends on the type of rules. There could be one, there  
 13 could be more than one.  
 14 Q. But WebWasher doesn't make a list of what those  
 15 functions were that made WebWasher decide the category  
 16 "Write Files" pertains to this downloadable?  
 17 A. Actually, I am not completely sure about that. That's  
 18 something that I haven't explored directly.  
 19 What I was more concerned, I went into my source  
 20 code analysis, and as you pointed out at the beginning of  
 21 this part of the hearing, it's a very big product. So I was  
 22 concentrating on the part that infringed on the claims. So  
 23 I was concentrating on the list of suspicious behavior.  
 24 Maybe, the code is very complex, there is some  
 25 other data structure that maintains that mapping. I haven't

536

Vigna - cross-examination

1 seen it. So I cannot really talk about it.  
 2 Q. Fair enough.  
 3 Now, Dr. Vigna, I would like to refer you to a  
 4 portion of your report.  
 5 MR. HOLDREITH: Your Honor, may I approach and  
 6 give Dr. Vigna a copy of his report? I have one for counsel  
 7 and the Court as well. I have already provided one to the  
 8 court reporter.  
 9 THE COURT: Okay.  
 10 BY MR. HOLDREITH:  
 11 Q. I would like you to --  
 12 MR. HOLDREITH: Your Honor, I wasn't going to  
 13 publish it to the jury. But I am happy to do that if it  
 14 would be helpful.  
 15 THE COURT: I was asking if it needed to still  
 16 be displayed.  
 17 MR. HOLDREITH: I am sorry. I didn't realize  
 18 you were referring to the document on the screen.  
 19 BY MR. HOLDREITH:  
 20 Q. Dr. Vigna, you may find it helpful to refer to  
 21 Paragraph 51 of your report while I ask these questions.  
 22 A. Yes.  
 23 Q. While you are reviewing that -- I will come over in a  
 24 minute. Have you read Paragraph 51 of your report now?  
 25 A. Yes.

Vigna - cross-examination

- 1 Q. You, as part of your investigation, looked at a file  
 2 in WebWasher called "rt-mef.js." Is that fair to say?  
 3 A. Yes.  
 4 Q. And --  
 5 MR. HOLDREITH: Your Honor, I realized I am  
 6 going to be reading a short portion of the source code to  
 7 Dr. Vigna. I apologize for this. I didn't anticipate it.  
 8 I am going to need to ask anyone not subject to the  
 9 protective order to be excused for a moment.  
 10 (Pause.)  
 11 BY MR. HOLDREITH:  
 12 Q. Dr. Vigna, when you looked at the rt-mef.js file, you  
 13 found descriptions of what the operations are in JavaScript  
 14 that are to be considered to be suspicious in WebWasher.  
 15 Right?  
 16 A. Correct.  
 17 Q. You gave examples of what those are in your report.  
 18 Is that right?  
 19 A. Yes. In this part of the report, I was trying to  
 20 define the rule set that is used to derive the categories of  
 21 behavior. And here, if I can assign my own words, even  
 22 though the main rule set file was encrypted, it was possible  
 23 to examine other files. So in forming my opinion, the best  
 24 possible way is to show what I showed later, I think, when I  
 25 was examined by Paul, that there is this rule file that I

538

Vigna - cross-examination

- 1 was, this "wwwmcfdb.dat" that I referred to before which  
 2 actually has the exact rule to show how certain low-level  
 3 functions are mapped to high-level behavior.  
 4 But that was not available. It was encrypted.  
 5 And so I couldn't analyze it.  
 6 So I said, Okay, that is not there. But there  
 7 is this file which has a similar functionality and shows how  
 8 certain functions are clearly identified as malicious.  
 9 Q. Now, the functions you identified as suspicious  
 10 operations for JavaScript include "execCommand." Is that  
 11 right?  
 12 A. Yes. These are potentially hostile identifications.  
 13 I don't refer to those as categories of behavior.  
 14 Q. Networks you don't. You refer to descriptions of what  
 15 the operations are in JavaScript that are to be considered  
 16 suspicious. Correct?  
 17 A. Yes.  
 18 Q. The operations are "execCommand." Is that right?  
 19 A. Yes.  
 20 Q. "ExecScript"?  
 21 A. Yes.  
 22 Q. And I will provide the court reporter with a list of  
 23 these.  
 24 "ShowModalDialog." Right?  
 25 A. Yes.

Vigna - cross-examination

- 1 Q. "ShowModalDialog." Right?  
 2 A. Yes.  
 3 Q. "showHelp." Right?  
 4 A. Yes.  
 5 Q. "CreateTextFile"?  
 6 A. Correct.  
 7 Q. "DeleteFile"?  
 8 A. Correct.  
 9 Q. "GetSpecialFolder"?  
 10 A. Correct.  
 11 Q. "RegWrite"?  
 12 A. Correct.  
 13 Q. "RegRead"?  
 14 A. Yes.  
 15 Q. Those are all what you found in the "rt-mcf.js" file  
 16 that contains descriptions of whether the operations in  
 17 JavaScript that are to be considered suspicious?  
 18 A. I said, actually, to be precise, The operations that  
 19 are considered suspicious and cause the script to be  
 20 blocked.  
 21 MR. HOLDREITH: Your Honor, I would like to  
 22 publish just a limited portion of this report just so the  
 23 jury can see that list of commands. I can write them on a  
 24 piece of paper.  
 25 MR. ANDRE: Your Honor, I am not sure what

540

Vigna - cross-examination

- 1 portions are to be published. I have a general objection to  
 2 showing expert reports.  
 3 No objection, Your Honor.  
 4 BY MR. HOLDREITH:  
 5 Q. This is Paragraph 51 of your report. You wrote, "It  
 6 was possible to examine another file called "rt-mcf.js" that  
 7 contains descriptions of what are the operations in  
 8 JavaScript. That's what you wrote?  
 9 A. Correct.  
 10 Q. The list that we just discussed is this list down  
 11 here, "execCommand," "execScript," "showModalDialog," and so  
 12 forth. Correct?  
 13 A. Correct.  
 14 Q. These operations are not categories of behavior, are  
 15 they?  
 16 A. These operations are actually the actual functions  
 17 that JavaScript performs. Just to give an example of what I  
 18 am talking about, if you get me for a second to the source  
 19 code laptop, I can show you something that will explain to  
 20 you better.  
 21 Can you switch for a second, please, so that I  
 22 can answer this question correctly?  
 23 The other one.  
 24 Okay. You just talked about, for example, an  
 25 "execCommand." So this is the rule that I wasn't able to

Vigna - cross-examination

Vigna - cross-examination

1 access. This is the file that I was trying to access and it  
2 was encrypted. And you can see, for example, that the exact  
3 operation, "execCommand" here, is used to determine  
4 particular categories of behavior, which is code creation  
5 for JavaScript.

6 So this is to explain to you that my, as an  
7 expert, I was trying to find all the evidence that this was  
8 happening, even though, since this database was encrypted  
9 and I had access to it, I think the very morning that I came  
10 here, I couldn't really derive the categories of behavior.  
11 But it was obvious they were there. And finally I had the  
12 actual evidence.

13 Q. These are the operations that after analysis by the  
14 heuristic rules in WebWasher might result in a category. Is  
15 that right?

16 A. Correct.

17 Q. And WebWasher does not put any of these operations on  
18 a list that it compares to a security policy. Right?

19 A. These are actually, in this particular case, if I  
20 remember correctly, four JavaScripts. These are used  
21 directly in the policy that is sent to the client as part of  
22 the sandbox, because these are the actual operation, the  
23 list of operations that are instrumented on the sandbox  
24 side. And, therefore, those have to be executed on the  
25 client side, they cannot be extracted away but have to be

1 A. Yes.

2 Q. Now, when you did your analysis and observed WebWasher  
3 running, you did not examine the network address of the  
4 packets. Is that fair to say?

5 A. You are asking me if I looked at the network address  
6 in the packets exchanged between which components?

7 Q. From a web server to WebWasher gateway?

8 A. Okay. I haven't.

9 Q. You don't know what mechanism WebWasher uses when it's  
10 configured as a proxy to keep track of packets?

11 A. I sort of have an understanding of that. So my  
12 understanding is that there is many possible configurations  
13 in which WebWasher can operate. And, in general, WebWasher  
14 acts as an intermediary between the client and the server,  
15 depending on how the actual traffic is delivered, which can  
16 happen in many different ways, the contents of the packets  
17 can be completely different.

18 For example, WebWasher could actually be  
19 connected as a gateway for a larger scale gateway to another  
20 proxy, okay, in cascade. And at that point, the IP address  
21 wouldn't be the one of the server or the client but will be  
22 only the IP addresses involved between the two proxies.

23 So, from that point of view, the actual IP  
24 address on the packet is completely irrelevant.

25 Q. You just described some hypothetical ways that servers

542

Vigna - cross-examination

1 associated with a particular language and the particular  
2 environment in which they are executed.

3 Q. Dr. Vigna, WebWasher never puts these operations, like  
4 "execScript," "showModalDialog," onto a list of suspicious  
5 operations that it compares to a security policy?

6 A. So, as I showed you in the source code, what it does,  
7 it takes those operations, interprets them with a rule, and  
8 depending on where the operations are, will put in the list  
9 of possible malicious behavior; for example, for

10 "execCommand," will put in the list of suspicious behavior,  
11 you know, create code or whatever I showed in my rule.  
12 Actually, code creation, sorry.

13 Q. Exactly. WebWasher does an analysis of these  
14 operations, based on that analysis it decides whether there  
15 is a category that pertains to the downloadable?

16 A. Correct.

17 Q. Dr. Vigna, I would like to now turn to a different  
18 limitation from the claims of the '194 patent. It is the  
19 addressed to a client limitation.

20 A. Okay.

21 Q. I will just go to the claim of this patent so I can  
22 highlight it. This is the limitation I want to ask you  
23 about now. It is that the gateway server has to receive an  
24 incoming downloadable addressed to a client. Do you  
25 understand that limitation?

544

Vigna - cross-examination

1 could handle packets. Right?

2 A. Yes. Because you asked me a hypothetical question.

3 Q. I apologize if I wasn't clear. I mean to ask you  
4 about a specific test of WebWasher.

5 You did not test WebWasher to see how it handles  
6 packets?

7 A. In which configuration? The one that we showed here?

8 Q. When you did your report in this case, and you formed  
9 your opinions, you wrote a report; you know that was  
10 supposed to be as accurate and complete as possible?

11 A. Yes.

12 Q. And you did not at that time analyze WebWasher to see  
13 how it handles packets coming into WebWasher?

14 I will ask a more specific question.

15 A. No. I will answer that question.

16 Packets are handled by -- in operating systems,  
17 there are different levels. This is a technical  
18 explanation. There is a part of the operation system,  
19 called the TCIP stack, which takes care of exchanging  
20 packets within the neighboring notes and takes care of  
21 parsing it and un-parsing the actual raw IP or TCP packets.

22 WebWasher, as a piece of code, doesn't really  
23 handle the packets directly. It operates at a higher level  
24 as a process. And, therefore, the reasons in terms of, for  
25 example, socket connections, which are an abstraction that

Vigna - cross-examination

Vigna - cross-examination

1 the operating system provides to higher-level applications  
2 to interact with remote components.  
3 What WebWasher does, and I could verify that by  
4 looking at the code, because there is code to set up a proxy  
5 and to set up in common connection, with a common interface  
6 and a growing interface, what I could verify is that  
7 WebWasher has sort of like two end points and can operate as  
8 an intermediary at an application level between a client and  
9 a server.

10 Now, below that, what happens at the actual  
11 network level is very difficult to analyze, because it  
12 depends on the particular setup. I can give you a little  
13 example, if you want, of what the different examples of  
14 stuff are.

15 But it can be very confusing.

16 Q. Dr. Vigna, I am asking you about the opinions you  
17 formed in this case and in your report. I am trying to ask  
18 a very specific question. You didn't set up an instance of  
19 WebWasher --

20 A. Okay, you are asking if I didn't do it?

21 Q. Yes. You did not set up an instance of WebWasher that  
22 was receiving downloadables and look at those downloadables  
23 to understand how they were addressed?

24 A. You know, you are asking me the wrong question,  
25 meaning that I cannot answer the question because, for the

1 the client made a request. And the downloadable has been  
2 retrieved and that downloadable has a final destination has  
3 a client, and, therefore, it is addressed to the client.  
4 Q. You just gave the example about school again. I want  
5 to make sure I understand that. In that example, you are  
6 saying, Addressed to somebody is when I pass a note, I might  
7 not hand it to the person it is going to, but I say, Pass  
8 this to Jim?  
9 A. Correct.  
10 Q. In WebWasher, you did not set up an instance of  
11 WebWasher and run a server that was sending messages back to  
12 WebWasher and establish how that server, in your words,  
13 says, Hey, send this to Jim?  
14 A. That's a really difficult question to answer.  
15 What I can tell you is that I haven't set up  
16 WebWasher, the server, and I haven't looked at the low-level  
17 packets being exchanged. But I looked at the code. And by  
18 operating the appliance, I have a clear understanding of how  
19 WebWasher gets a request from the client. That would be me,  
20 for example, saying, Give it to Jim.  
21 The request from the client will be me giving  
22 the little note that says, Hey, ask Jim where he is going to  
23 party tomorrow night? So I ask for a piece of information.  
24 This thing goes off to Jim.  
25 Jim writes the answer, and it just gives it

548

548

Vigna - cross-examination

Vigna - cross-examination

1 last part, if you ask me, Did I set up WebWasher before I  
2 wrote my report, in order to write my report, did I set up  
3 physically the appliance and put a sniffer, which would give  
4 me the packets exchanged between WebWasher appliance and the  
5 server, okay, did I do that? I didn't do that. So I didn't  
6 analyze the single packet.

7 But the moment you say "downloadable address,"  
8 then it didn't make sense anymore, because what I am saying,  
9 I am saying low-level network packets which are a transport  
10 mechanism to transfer raw data.

11 The address on those packets had nothing to do  
12 with who is the final destination of that particular  
13 downloadable. And my task as an expert was to understand,  
14 Is that downloadable addressed to a client? Yes, it is,  
15 because it is its final destination.

16 If you remember yesterday, I was making the  
17 example of being in high school and exchanging little notes.  
18 You have the same concept.

19 I am sending a note to my friend on the other  
20 side of the room. And what I intend is to address, you  
21 know, a piece of paper to the other guy. I really don't  
22 care how it gets transported there. I am not even sure who  
23 is going to, actually going to handle the handing the note  
24 to whomever, I don't have any control on that.

25 The important thing to understand here is that

1 back.  
2 Everybody in the path, for some magic reason,  
3 knows that that goes, little thing has to go back to me.  
4 That is exactly what happens. In technical terms, you know,  
5 depending on what the setup is, that is why I cannot give a  
6 final answer because a lot depends on the topology, how  
7 things are connected and their differences, but at the high  
8 level, what happens is that the client makes a request. The  
9 proxy intercepts that request for a downloadable.  
10 And it says, Okay, let me ask this downloadable  
11 to the server on your behalf. And it remembers, that is the  
12 client who asked for that downloadable. So it asks the  
13 server, the downloadable comes back and says, Okay, I got  
14 the downloadable. I do some analysis. But I remember that  
15 it's this client who asked me in the first place and I know  
16 the downloadable is destined to this client. Therefore, I  
17 pass it over if I decide that it is allowable.  
18 MR. HOLDREITH: Your Honor, for my planning  
19 purposes, I am sorry, I can't remember when the Court likes  
20 to take a break.

21 THE COURT: We can break now.

22 MR. HOLDREITH: This is a convenient point.

23 (Jury leaves courtroom at 10:55 a.m.)

24 (Recess taken.)

25 THE COURT: All right.



Vigna - cross-examination

1 (Jury enters courtroom at 11:25 a.m.)  
2 THE COURT: Mr. Holdreith.  
3 MR. HOLDREITH: Thank you, Your Honor.  
4 BY MR. HOLDREITH:  
5 Q. Dr. Vigna, I have a few questions now for you about  
6 just one last limitation of the '194 patent. I will put the  
7 board back up so you can see it. Do you see that all right?  
8 A. Yes. Thank you.  
9 Q. Just to highlight the claim language, this is the last  
10 of the three limitations I told you I was going to ask you  
11 about. It's this one. Let's see if I can get it to  
12 highlight for me.  
13 A server that serves as a gateway to a client.  
14 I am going to ask you about that one now. Okay?  
15 A. Okay.  
16 Q. Do you know that WebWasher can be the machine that is  
17 between the client and the Internet. Right?  
18 A. Define "between," please.  
19 Q. Well, it can have a direct connection out to the  
20 Internet and a direct connection to a client computer?  
21 A. A connection means a cable -- you have to be precise.  
22 Q. Let me use the example you have in front of you to  
23 make it easy.  
24 A. Perfect.  
25 Q. You have got a mock client or a real client, the

550

Vigna - cross-examination

1 computer in front of you, it is a laptop. Right?  
2 A. Yes, this one.  
3 Q. And you have a mock Internet server over by the wall?  
4 A. Correct.  
5 Q. And your client can make requests to that Internet  
6 server?  
7 A. Yes.  
8 Q. And those requests all run through WebWasher that's  
9 running on the table there?  
10 A. The patents. Let me explain this, because this can be  
11 a little confusing. Could I use that thing for a second?  
12 Q. Certainly.  
13 (Witness steps down from stand.)  
14 A. So. We talk about gateways, we have different  
15 possible configurations. We can have actually the most  
16 simple configuration that would never happen in reality,  
17 where you have a client. So this is the client computer.  
18 There is a client application, like a browser.  
19 This computer is physically connected through a  
20 cable to that pizza box that I showed you before.  
21 Q. Let me stop you there. The pizza box is WebWasher?  
22 A. Yes. We call this "pizza boxes" because they look  
23 like pizza boxes and we eat a lot of pizza.  
24 There is a cable going out that connects to a  
25 server machine that has a server process running on it,

Vigna - cross-examination

1 which is the actual web server providing the pages.  
2 This hardware has an application running on it  
3 called, for example, proxy. And this, altogether, as a  
4 logical unit, represents a gateway. This will really never  
5 happen. This is a super simplified version.  
6 Q. If you don't mind, Doctor, that is an illustration of  
7 what I meant to ask you.  
8 A. Let me finish. The situation that you see here is  
9 slightly different. That's why it could be confusing.  
10 What we have here is the laptop, with a client  
11 running on it. Actually, the client is connected to an  
12 object called a router. That object is actually this white  
13 object right here (indicating), with all the cables coming  
14 out. So this router has the only task of actually moving  
15 packets around and making people talk to each other.  
16 So attached to this router, there is actually  
17 the pizza box -- WebWasher hardware appliance, running, for  
18 example, the proxy. And in this setup, also, to the router,  
19 there is the server running, the server hardware running the  
20 actual web application that is serving the page.  
21 If you remember, at the beginning, when I showed  
22 the setup, the first thing I did, I modified the settings of  
23 my browser and I showed that I could connect directly to the  
24 server and download a downloadable without WebWasher being  
25 in the way.

552

Vigna - cross-examination

1 And I did this because this router, you know,  
2 represented the network gateway, so it is the packet level,  
3 if I have to talk to anybody else, I am first going to talk  
4 to this guy (indicating). So like IP configuration, I am  
5 talking to the router and asking the router to forward  
6 packets to somebody else. So I can configure my system to  
7 actually go directly from the client to the server. And by  
8 doing this, I cut WebWasher out of the equation, and I don't  
9 get any protection.  
10 However, if I configure my client to use  
11 WebWasher as a gateway to the outside, then whenever I do a  
12 request, the request physically goes, of course, to the  
13 router, but then it goes to WebWasher, and then through  
14 WebWasher to this guy and back.  
15 Again, if you look at this as a whole, this  
16 whole system represents a gateway to the outside as far as  
17 this client is concerned. It is in the middle and can  
18 filter any communication.  
19 Now, just to give you one final scenario.  
20 Normally, what you have is a lot of different networks, with  
21 a lot of different computers. And this could be a  
22 corporation. And then there is what we call a "gateway."  
23 And this gateway sometimes is referred to as a number of  
24 computers, as a firewall, as a web filter, as a web  
25 protection system, an anti-virus.

Vigna - cross-examination

Vigna - cross-examination

1 What that gateway means in this context is an  
2 intermediary with respect to the rest of the Internet,  
3 which, again, is made of, you know, millions of different  
4 networks.

5 So, as you can see, when we say, Server that  
6 serves as a gateway to the client, we mean something that  
7 acts as an intermediary, and that is between the client -- I  
8 should put here the server.

9 This is to show that several different  
10 configurations are possible, and I can tell you that, to go  
11 back to the packet sniffing, it didn't make sense in my  
12 expert report to look at the address of the packets, because  
13 it would be different here than here.

14 For example, in this connection, the address of  
15 the packets will be between the server and the router, which  
16 doesn't really matter. And here would be from the server  
17 directly to the proxy. While here will be across these  
18 different networks and so forth.

19 I want to make sure you understand the different  
20 meaning of "gateway."

21 Q. I don't want to interrupt, Dr. Vigna. But I am on a  
22 clock in this trial. You may know that. I appreciate all  
23 that information.

24 A. I am sorry.

25 Q. I have a much more limited question for you.

1 will be made this way, an HTTP connection will be made that  
2 way (indicating).

3 Q. I am now going to show you this drawing. You have  
4 seen this before?

5 A. Yes. That is very similar to what I put here.

6 Q. This drawing was made by one of the, a person who  
7 works at WebWasher?

8 A. Yes.

9 Q. And it illustrates one way that you can configure  
10 WebWasher. Right?

11 A. Correct.

12 Q. In this configuration, if I can just step over and  
13 point it out, this is WebWasher, the box labeled  
14 "WebWasher"?

15 A. This one, yes, which would be this one.

16 Q. And the client, that's the user's computer, is labeled  
17 "Client"?

18 A. Correct.

19 Q. And the web server out on the Internet, the place you  
20 are requesting the content from, that's this web server?

21 A. Yes.

22 Q. And in this setup, there is a proxy server here, in  
23 the middle. Right?

24 A. Yes.

25 Q. And when WebWasher is configured as an ICAP server, it

554

Vigna - cross-examination

1 A. All right.

2 (Witness resumes stand.)

3 Q. Did you say the router could be a gateway?

4 A. At the network level?

5 Q. Yes.

6 A. It acts as the gateway for the packets.

7 Q. All right. Now, for lack of a more precise term,  
8 there is a language or protocol called HTTP. Right?

9 A. Correct.

10 Q. And in the middle configuration there that you have  
11 illustrated, which I understand is what your demonstration  
12 is?

13 A. Yes.

14 Q. All of those machines are using HTTP. Right? That's  
15 the language, the protocol?

16 A. Actually, that's not always the case. So it depends.

17 For example, you can have here, here, one thing  
18 that happens sometimes, you have a proxy, you can have also  
19 in the gateway another element. For example, these are  
20 talking to each other. For example, using the ICAP --

21 Q. I am getting to that. I want to ask you, your actual  
22 setup here?

23 A. In the setup here, these computers can talk to each  
24 other using a variety of protocols. Whenever a web request  
25 is made by the client to the server, then an HTTP connection

556

Vigna - cross-examination

1 communicates with the proxy using a protocol called ICAP?

2 A. Correct.

3 Q. And you pointed out in your deposition that although  
4 this arrow is a two-way arrow, really, you could draw this  
5 as an arrow going one way to WebWasher and the other way  
6 going back --

7 A. That would be more precise. I would say more  
8 consistent with the rest of the drawing.

9 Q. The messages that go from the client to the proxy,  
10 those use the HTTP protocol. Right?

11 A. Correct.

12 Q. And the messages that go from the proxy to the web  
13 server and back, those also use the HTTP protocol?

14 A. Correct.

15 Q. And that's different from the ICAP protocol for the  
16 messages that go back and forth between WebWasher and the  
17 proxy server?

18 A. It is a different protocol. ICAP is not HTTP.

19 Q. And in this low level of interaction, at the level of  
20 protocol, the client here is not a client of the ICAP server  
21 that is WebWasher. Right?

22 A. Well, here you are mixing two very different  
23 descriptions. So when you talk about clients and servers,  
24 you have two general ways to represent it. So, if you  
25 remember, in my deposition, I actually -- you asked me

Vigna - cross-examination

Vigna - cross-examination

1 actually to put a box around that proxy plus filter engine,  
2 similar to the box that you see here. That's the one that I  
3 signed.

4 So that whole thing in the middle at a higher  
5 level is an intermediary between the client and the server.  
6 At this higher, architectural level, I have a client, which  
7 is the laptop, and a server, which is the web server.  
8 However, when you talk about structuring relationship  
9 between components at any level, you can see a client and a  
10 server. In a way it's like, you know, you watch a movie on  
11 TV. You go to wherever, the channel, and you get some  
12 information. But, actually, that channel is, the TV is  
13 asking a central station for the signal. The signal is  
14 asking a central distributor for the content, and so forth.  
15 That means that even though I am the client, and the far  
16 away service provider with my movie is the server, there are  
17 a bunch of intermediaries with which at a lower level we  
18 have a client/server relationship.

19 In that drawing, in particular, you could see  
20 that there is the client and there is the web server. And  
21 that at the application level, that is all that matters, the  
22 thing in the middle is the gateway server that is the  
23 intermediary. Within that gateway server, true, the proxy  
24 is acting as a client with respect to the WW filter engine,  
25 which is the ICAP server.

1 want to make sure we are talking the same language here, the  
2 client of WebWasher ICAP server, that ICAP transaction is  
3 the proxy server?

4 A. Yes. When you say, Talking about the same language,  
5 client and server are the same words. But it is really  
6 important to determine the level of abstraction at which you  
7 are talking. If you say client and server, within that  
8 specific interaction, it makes sense. If you look at the  
9 whole picture and you say, Oh, those are client and a  
10 server, that is not really true because at this higher level  
11 they are the gateway.

12 Q. Dr. Vigna, I want to now ask you about the last of the  
13 three patents, the '822 patent. All right?

14 A. Okay.

15 Q. I have now put in front of you Claim 12 of the '822  
16 patent. You are familiar with this claim?

17 A. Yes.

18 Q. And I am putting on the screen so I can enlarge this  
19 and do a little highlighting the '822 patent. You see that?

20 A. Yes.

21 Q. That is JX-3. We are going to go right to the end of  
22 that patent, to the claims. You have got your Claim 12, I  
23 am blowing that up on the screen.

24 Do you see Claim 12 up there?

25 A. Yes.

558

Vigna - cross-examination

1 But this is at a very, it's just the way you  
2 structure that particular communication. But as the general  
3 understanding goes, still, the client is the client, the  
4 laptop, the one that initiates the communication, and the  
5 final destination, the server, is the one that is  
6 representing the server.

7 Q. I am going to try to ask a very specific question.

8 A. Go ahead.

9 Q. Do you agree with me, there is a client/server  
10 relationship between WebWasher ICAP server and the proxy  
11 server?

12 A. Correct.

13 Q. And in that relationship, the proxy is the client?

14 A. Correct.

15 Q. And WebWasher is the server?

16 A. Correct.

17 Q. The client of the WebWasher server in that  
18 relationship is the proxy?

19 A. In that particular context, within the gateway, so  
20 there is the whole gateway component, within the component,  
21 there are two sets of components and they talk to each other  
22 in a client-server relationship, which is not to be confused  
23 with the client in an HTTP interaction and the server, which  
24 is the one that provides the information, yes.

25 Q. I am still trying to ask a very precise question. I

560

Vigna - cross-examination

1 Q. I want to ask you now about this portion of the claim,  
2 Causing Mobile Protection Code, called MPC, to be  
3 communicated to at least one information destination of the  
4 downloadable information.

5 Do you see that?

6 A. Yes.

7 Q. That's a mouthful. We will break that down in a  
8 minute.

9 A. Yes.

10 Q. You see, there is another clause here that says, If  
11 the downloadable information is determined to include  
12 executable code. Right?

13 A. Correct.

14 Q. So there is two clauses there. Now, just to make this  
15 simple, for purposes of your analysis, your infringement  
16 analysis, the information destination, that could be the  
17 client computer. Right?

18 A. The information destination can be the client  
19 computer, correct.

20 Q. All right. And the downloadable information, in your  
21 analysis, that could be the downloadable?

22 A. Yes.

23 Q. What we are talking about here in your analysis is,  
24 there is a downloadable that's going to a client computer  
25 like that laptop?

Vigna - cross-examination

- 1 A. Correct.
- 2 Q. And the second phrase in this claim, the phrase that I
- 3 have highlighted, if the downloadable information is
- 4 determined to include executable code, that's a condition.
- 5 Right?
- 6 A. Yes.
- 7 Q. So the first thing you do is you say, Does that
- 8 downloadable include executable code?
- 9 A. You do -- you send it if the downloadable contains
- 10 code, yes.
- 11 Q. So you have to answer the question, Does the
- 12 downloadable have executable code?
- 13 A. Yes.
- 14 Q. And if the answer to that question is yes, then you
- 15 cause mobile protection code to be sent along with the
- 16 downloadable to the client?
- 17 A. If you are discussing an implementation of this
- 18 particular mechanism, yes. For example, if you have means
- 19 to add the protection code to JavaScript code, when you see
- 20 going, whenever you do that, then you are using this method.
- 21 Q. And the mobile protection code, that is what sometimes
- 22 has been called the sandbox in this case?
- 23 A. Correct.
- 24 Q. What these two phrases together say are, if you see
- 25 downloadable code that's executable, put a sandbox on it?

562

Vigna - cross-examination

- 1 A. Might put a sandbox on it, yes.
- 2 Q. It doesn't say "might" in this claim anywhere, does
- 3 it?
- 4 A. Causing a mobile protection code to be communicated,
- 5 to at least one information destination, yes.
- 6 Q. Right. And this is a claim that you investigated with
- 7 respect to script code mitigation on WebWasher. Right?
- 8 A. Correct.
- 9 Q. And you concluded that the script code mitigation
- 10 function of WebWasher does this?
- 11 A. Yes.
- 12 Q. Now, you have actually tested in this case WebWasher.
- 13 You actually ran WebWasher, and you downloaded the
- 14 downloadable, and you observed to see whether it put a
- 15 sandbox on that downloadable?
- 16 A. Yes.
- 17 Q. Now, the example you gave is that WebWasher sent
- 18 script code mitigation in the case of JavaScript. Right?
- 19 A. Correct.
- 20 Q. That is the particular downloadable you looked at?
- 21 A. Yes. In that particular case, it infringes.
- 22 Q. And there are lots of different downloadables that
- 23 have executable code. Right?
- 24 A. Yes. Actually, for example, WebWasher does not do
- 25 this for executables. They implemented that and they

Vigna - cross-examination

- 1 advertise that in their literature for VBScript and for
- 2 JavaScript.
- 3 Q. Exactly. We are going to look at the step-by-step
- 4 guide here. We have seen this document before?
- 5 A. Yes, I did.
- 6 Q. This is PX-12. If we look at the next page here, this
- 7 page has examples of different types of downloadables that
- 8 WebWasher uses ProActive scanning on. Right?
- 9 A. Okay.
- 10 Q. So, now, this says that behavior heuristic, that is
- 11 not sandboxing. Right? That's different?
- 12 A. Correct.
- 13 Q. Behavior heuristic is used on mobile code including
- 14 ActiveX controls?
- 15 A. Yes.
- 16 Q. And Windows executables?
- 17 A. Correct.
- 18 Q. And Dynamic Link libraries?
- 19 A. Yes.
- 20 Q. And Java applets?
- 21 A. Yes.
- 22 Q. And JavaScript?
- 23 A. Correct.
- 24 Q. And Visual Basic script?
- 25 A. Yes.

564

Vigna - cross-examination

- 1 Q. And Visual Basic for applications macros?
- 2 A. Yes.
- 3 Q. The only time that WebWasher uses script code
- 4 mitigation, what we call a sandbox, is JavaScript, and
- 5 VBScript. Right?
- 6 A. Correct. Those are the two instances that I found
- 7 violate the patent.
- 8 Q. And if WebWasher sees a downloadable with executable
- 9 code that's an ActiveX control, there is such a thing.
- 10 Right?
- 11 A. They haven't implemented anything that would create a
- 12 sandbox, as far as I know, for ActiveX control. So there is
- 13 no code there. So I didn't flag an infringement.
- 14 Q. Let me make sure we are communicating. An ActiveX
- 15 control can be a downloadable with executable code. Right?
- 16 A. Correct.
- 17 Q. And if WebWasher sees an ActiveX control that's a
- 18 downloadable with executable code, it doesn't say, Okay, now
- 19 put a sandbox on it?
- 20 A. You are correct.
- 21 Q. And that's true for all of these other types of mobile
- 22 code other than JavaScript and VBScript?
- 23 A. Correct.
- 24 MR. HOLDREITH: Dr. Vigna, that is all the
- 25 questions I have for you right now.



Vigna - redirect

1 THE COURT: Mr. Andre, redirect.

2 MR. ANDRE: Thank you, Your Honor.

3 REDIRECT EXAMINATION

4 BY MR. ANDRE:

5 Q. Good morning, Dr. Vigna.

6 A. Good morning.

7 Q. I am going to show you Claim 1 of the '194 patent,

8 which is JTX-1. With respect to this patent, the first

9 claim element that counsel talked to you about was the claim

10 element, here it says, The downloadable security profile

11 data includes a list of suspicious computer operations that

12 may be attempted by the downloadable. Do you recall that

13 testimony?

14 A. Correct.

15 Q. Now, when you are writing your expert report and doing

16 your analysis, you did a source code review. Correct?

17 A. Correct.

18 Q. And this was the -- can we have the Elmo on, please?

19 This was the portion of your expert report that

20 counsel showed to you. When you are preparing your report,

21 you stated that there is a series of rules that are

22 extracted from an encrypted database called www -- wwwmc --

23 A. I remember the name of the file. Wwwmcfdb.dat.

24 Q. You stated that the contents of the rule set file

25 could not be accessed during the source code review because

566

Vigna - redirect

1 of encryption. Correct?

2 A. Correct.

3 Q. What exactly does that mean, it was encrypted?

4 A. By analyzing the code, I could determine two things:

5 The structure of the rules, how the rules are actually

6 potentially structured. And that the system would go open

7 this file, de-crypt it, and load the rules to do the actual

8 analysis.

9 Unfortunately, the file, the .dat file, the .dat

10 file, was encrypted, I think, with an encryption system

11 called "blowfish" that makes it unreadable to a human being.

12 Therefore, I could not really see what actual rules were

13 used to interpret those low-level functions to derive the

14 list of behaviors.

15 Q. The night before you testified here, yesterday, you

16 went and had access to the source code again?

17 A. Correct.

18 Q. Was that available to you at that time?

19 A. No. It was encrypted again. I mean, the first time

20 that I reviewed the source code, I asked that file to be

21 decrypted, and it wasn't. Then I think it was yesterday or

22 two days ago, I sat down, looking at the code. And I found

23 that the file was still encrypted and I couldn't access it.

24 Q. Was the first time you had access to that file

25 yesterday morning right before you went to testify?

Vigna - redirect

1 A. Correct. They showed me the file like a few minutes

2 before the whole proceeding started.

3 Q. And based on that very quick review, did that provide

4 you any insight into your opinion regarding the claim

5 element that we were just discussing, the downloadable

6 security profile data that includes a list of suspicious

7 computer operations?

8 A. Actually, I was really pleased with the contents of

9 the file, because I found in the file exactly what I

10 expected, which are precise rules that define exactly how

11 the decomposed structure of the downloadable is translated

12 into this list of behaviors. I couldn't do that for my

13 report. It would have been a lot more compelling that way.

14 But it was nice to see that what I imagined would have been

15 in that file was actually there.

16 It strengthened my current opinion that there is

17 an infringement.

18 Q. Now, with respect to the second claim term that

19 counsel brought up, the downloadable addressed to a client,

20 you gave a demonstration where you were acting as a client?

21 A. Correct.

22 Q. And you sent a request out to our little mock Internet

23 here?

24 A. Yes.

25 Q. Did it make it back to the client?

568

Vigna - redirect

1 A. Yes.

2 Q. Would you call that being addressed to the client

3 since you requested it?

4 A. Yes.

5 Q. Is there anything special about that term "addressed

6 to a client" that would limit it to any particular way of

7 addressing the client?

8 A. No. Actually, I think that there has been some

9 confusion on the other side on what is address as a verb and

10 address as a noun. Address as a noun is used to

11 characterize packets. They are exchanged at a very low

12 level.

13 When you say something is addressed, then you

14 are talking about higher-level concept where you imagine the

15 final destination of some piece of information is the

16 client.

17 Q. Is it your opinion that you were able to, with

18 WebWasher product, receive the incoming downloadable

19 addressed to the client by a server that serves as a

20 gateway?

21 A. Absolutely. I think that WebWasher system adds, as

22 the intermediary, and I agree that there are different types

23 of configurations that can act as an ICAP server with a

24 proxy, connect as a proxy itself, can be in a router type of

25 situation. But the important thing is this intermediary

Vigna - redirect

Vigna - redirect

1 action. So it will receive, on behalf of the client, the  
 2 downloadable addressed to the client. And, so, will act as  
 3 a gateway between the client and the server, and that is my  
 4 opinion.  
 5 Q. When we showed you JTX-3 7, counsel showed you this  
 6 configuration here?  
 7 A. Correct.  
 8 Q. The claim language requires receiving an incoming  
 9 downloadable addressed to a client?  
 10 A. Correct.  
 11 Q. So in that preamble, is this the client?  
 12 A. Yes.  
 13 Q. So this is receiving to the client?  
 14 A. Yes.  
 15 Q. By a server that serves as a gateway?  
 16 A. Correct.  
 17 Q. To the client? This is the client. Right?  
 18 A. Yes.  
 19 Q. With the WebWasher in this configuration, would it be  
 20 a gateway to the client?  
 21 A. Yes. In this configuration, it would be much clearer  
 22 if there was a box like here, because there is two things  
 23 together that represent a gateway to the client. Because  
 24 you have to understand that that is -- that is why I  
 25 complain about this single arrow here. What happens is

1 the downloadable information is determined to include  
 2 executable code?  
 3 A. Correct.  
 4 Q. And you made the determination that if, for WebWasher  
 5 product, it does exactly this process for JavaScript and  
 6 VBScript?  
 7 A. Correct. In those two instances, it sends some mobile  
 8 protection code to create a sandbox.  
 9 Q. And in those instances, do you have an opinion whether  
 10 that element is infringed by WebWasher product?  
 11 A. Sorry, can you say that again?  
 12 Q. In those instances where they are using JavaScript or  
 13 VBScript, is your opinion that the WebWasher product  
 14 infringes that element?  
 15 A. Absolutely, yes.  
 16 Q. Counsel also talked about if the WebWasher code or  
 17 WebWasher product that is incorporated into the CyberGuard  
 18 TSP, if it is locked in some way, he wondered whether it  
 19 would affect your opinion of infringement?  
 20 A. It would not affect my opinion on infringement.  
 21 Q. If you go to the '194 patent. Claim 65, this is one  
 22 of the claims that you gave your opinion on yesterday.  
 23 Correct?  
 24 A. Yes.  
 25 Q. This is a claim for a computer readable storage medium

570

Vigna - redirect

Vigna - redirect

1 actually the request goes like this, like this, like this,  
 2 and backwards like this. So you can see that it goes  
 3 through the filter engine, and this is an intermediary to  
 4 the server, because it has the power to block. If it wasn't  
 5 a gateway, then it wouldn't have the possibility to block  
 6 because it wouldn't be between the client and the server.  
 7 So this whole system together is the gateway  
 8 between the client and the server. And it's the server  
 9 acting as a gateway.  
 10 Q. And so the written record is very clear, so the  
 11 request goes from the client to the proxy through WebWasher,  
 12 back up to the proxy, out to the Internet. Is that correct?  
 13 A. Correct.  
 14 Q. And then from the Internet, it comes back into the  
 15 proxy, back through WebWasher box?  
 16 A. Correct.  
 17 Q. Back up to the proxy and then to the client again?  
 18 A. Correct.  
 19 Q. And, in that configuration, is WebWasher product there  
 20 acting as a server that serves as a gateway to the client?  
 21 A. Yes.  
 22 Q. We will go to the '822 patent, JTX-3. Go to Claim 4.  
 23 Counsel was asking about this element here, Causing mobile  
 24 protection code to be communicated to at least one  
 25 information destination of the downloadable information, if

572

1 storing program code for causing a server that serves as a  
 2 gateway to a client to perform the steps of...  
 3 A. Correct.  
 4 Q. Now, even if the WebWasher modules were locked on the  
 5 CyberGuard TSP, which we are not saying they are, if they  
 6 were, would it have any bearing on your opinion as to this  
 7 type of machine code, program code claims?  
 8 A. Yes. I mean, my understanding of this claim is that  
 9 if the program is in storage, so it's on the disk, for  
 10 example, of that particular product, then it infringes.  
 11 Q. And would the same thing be true of the system claims  
 12 that we discuss also in these patents, not the method  
 13 claims, but the system claims and the program code claims.  
 14 Would it be the same thing for the system claims?  
 15 A. Yes.  
 16 Q. If you would go to the '780 patent, JTX-2, go to Claim  
 17 9 of that patent.  
 18 Counsel asked you if you were able to determine  
 19 the cache-ing function?  
 20 A. Yes.  
 21 Q. On WebWasher product, whether it would still infringe  
 22 or not. If the cache-ing function was turned on or off,  
 23 once again, would it have any effect on your opinion  
 24 regarding these type of system claims or the program code  
 25 claims?

Vigna - redirect

1 correct?

2 "Answer: The information I received is gleaned  
3 a step earlier by discussions with engineers and team  
4 members, and these presentations are the end result, rather.

5 "Question: Have you given these presentations  
6 to customers?

7 "Answer: We, including me, according to my  
8 knowledge, have never given a presentation on ProActive  
9 scanning. ProActive scanning is one component of many.  
10 Therefore, a presentation about WebWasher technology is much  
11 more diverse than that.

12 "Question: Before the break, we were talking  
13 about some White Papers and presentations and some websites  
14 that you used to gain knowledge about WebWasher technology,  
15 and, in particular, ProActive scanning.

16 I would like to show you what has been marked as  
17 Exhibit 7, PTX-12. It is WebWasher Proactive Scanning  
18 Step-by-Step Guide. The author is Christoph Alme, and I  
19 believe it was marked at his deposition -- or interview a  
20 couple of days ago. Actually, let me hand you the official  
21 exhibit. There we go.

22 Do you recognize this document?

23 "Answer: Yes.

24 "Question: What is this document?

25 "Answer: It is a step-by-step guide.

578

Vigna - redirect

1 "Question: What is this document -- what is the  
2 purpose of this document?

3 "Answer: This document has the purpose of  
4 giving customers enough information to understand the  
5 product and to configure the product adequately.

6 "Question: Is this an accurate document?

7 "Answer: My answer to this question basically  
8 is that I cannot answer this question based on my knowledge.  
9 Based on the information I gave earlier, i.e., the fact that  
10 this kind of document basically is the source of my  
11 knowledge. So, for me, it is basically impossible to be a  
12 judge of whether this is accurate or not.

13 "Question: Fair enough.

14 So is it -- is it safe to say that you rely on  
15 this document to provide you with how ProActive scanning  
16 works?

17 "Answer: Yes. You can say it like that.

18 "Question: I would like to show you Exhibit 8.

19 It is also WebWasher WebWasher Proactive Scanning  
20 Step-by-Step Guide. I believe it was marked at the  
21 proceedings with Mr. Alme. However, the step-by-step guide  
22 does not contain the company -- company confidential stamp.  
23 And just to be clear, when I introduce a document, I'm just  
24 doing that solely for the record so somebody reading the  
25 record would know what we're talking about.

Vigna - redirect

1 Is this document, Exhibit -- do you recognize

2 Exhibit 8, PTX-13?

3 "Answer: Yes.

4 "Question: Is this a document that you would  
5 give customers?

6 "Answer: Yes. That is a document I would give  
7 to customers.

8 "Question: And would you give this document to  
9 customers in order for them to understand how ProActive  
10 scanning works?

11 "Answer: Yes.

12 "Question: Have you ever reviewed Finjan's  
13 products?

14 "Answer: Yes.

15 "Question: And when was that?

16 "Answer: That was a few years ago, I suppose.  
17 2002, 2003, and a few months ago.

18 "Question: What were the circumstances upon  
19 your first review of Finjan's products in 2002 or 2003?

20 "Answer: It was an introduction and a  
21 presentation about GUI.

22 "Question: What did you learn from viewing  
23 Finjan's products?

24 "Answer: I only saw the GUI and that I was  
25 available by the huge number of configuration options that

580

Vigna - redirect

1 were available.

2 "Question: Was one of the configuration options  
3 the ProActive scanning?

4 "Answer: No.

5 "Question: What did you do after you observed  
6 Finjan's products in 2002 or 2003?

7 "Answer: I asked several sources how we could  
8 improve the competitive situation with regards to Finjan.  
9 And as I said before, customers are the top priority there,  
10 so my most important question to the customer is, What is  
11 your problem you are trying to solve?

12 "Question: What was the most important problem  
13 that they were trying to solve at that time?

14 "Answer: Within this context, the most  
15 important requirement for the customer was an extension of  
16 the traditional reactive anti-virus protection. And from a  
17 broader point of view in this context, the most important  
18 problem was the blocking of websites with inappropriate  
19 content using the category-based technology, and the most  
20 important issue was still traditional anti-virus.

21 "Question: Was there any development of any  
22 product based on your review of Finjan's products?

23 "Answer: No individual products but products  
24 were developed on the basis of these findings.

25 "Question: What products were those?

Parr - direct

Parr - direct

1 "Answer: First of all, WebWasher is a suite of  
2 products. We have never had different products. It has  
3 always been the one WebWasher suite. And the ProActive  
4 technology that was developed as a response to these  
5 requirements was offered as a part of WebWasher anti-virus."

6 THE COURT: Your next witness.

7 MR. ROVNER: Good morning, Your Honor. Philip  
8 Rovner.

9 THE COURT: Good afternoon now.

10 MR. ROVNER: Is it?

11 Philip Rovner for the Plaintiff, Finjan. I am  
12 co-counsel with the people seated at this table. At this  
13 time, we will be presenting Russell Parr. Mr. Parr will be  
14 presented as an expert on damages available to Finjan.

15 RUSSELL L. PARR, having been duly  
16 sworn as a witness, was examined and testified as follows:

17 MR. ROVNER: Your Honor, with the Court's  
18 permission we would like to hand out the books that we would  
19 like to use with Mr. Parr to the jury.

20 THE COURT: Ms. Walker.  
21 (Binders handed to jurors.)

22 BY MR. ROVNER:

23 Q. Good afternoon, Mr. Parr. I have been corrected.

24 Would you please state your name for the record?

25 A. Russell Parr.

582

Parr - direct

Parr - direct

1 Q. Could you please give us a brief overview of your  
2 educational background?

3 A. I have an M.B.A. focused on finance. And I have a  
4 Bachelor of Science in electrical engineering. In addition,  
5 I have two professional designations. One is the chartered  
6 financial analyst designation. And the second is accredited  
7 senior appraiser from the American Society of Appraisers.

8 Q. First things first. Your formal education, could you  
9 just tell us when you obtained those degrees and from where?

10 A. The Bachelor of science degree, I obtained, I think it  
11 was in 1976, from Rutgers University. And then the M.B.A.,  
12 also from Rutgers, would be 1981.

13 Q. Could you sort of give us a little more description of  
14 these other credentials that you mentioned?

15 A. Yes. The chartered financial analyst is, say, an  
16 investment analyst credential. It is offered by the CSA  
17 Institute. It is focused on investment professionals. It  
18 requires passing three examinations that cover accounting,  
19 economics, fixed income securities, equity securities,  
20 ethics, derivative investments. It's all about and totally  
21 focused on investment analysis.

22 There is three exams given. The first Saturday  
23 in June of each year, and you have to pass them  
24 consecutively in order to have the designation provided to  
25 you.

1 The other one, American Society of Appraisers,  
2 is, my focus, again, was getting the designation for  
3 business valuation, appraising business values. Again, to  
4 focus on securities of privately-held companies. And that  
5 required an examination, submission of reports that I had  
6 done for review, and then work experience, all leading to  
7 whether or not you were accepted and allowed to have the  
8 designation.

9 Q. Do those designations and the information that you  
10 learned in acquiring those credentials help you in your work  
11 that you do today?

12 A. Well, yes. My whole education definitely benefits  
13 what I do today.

14 Q. Would you describe exactly what you do today? I think  
15 we should start out with: Are you employed?

16 A. Yes.

17 Q. Could you give us a little description of who your  
18 employer is and what you do?

19 A. The name of my company is Intellectual Property  
20 Research Associates. It is in Yardley, Pennsylvania. I  
21 basically do three separate areas or aspects of business.

22 The first is I do consulting. I do consulting for  
23 individuals, universities, and corporations that are doing  
24 licensing negotiations. Either they want to license  
25 technology in or they have technology they want to license

584

1 out and they will come to me for information and consulting  
2 about what royalty rate might be appropriate.

3 In addition, in the consulting area, I do  
4 valuations of technology. Not so much value with regard to  
5 royalty rate but value of what it's worth if you want to pay  
6 and buy and own it.

7 I have done that for companies that are going  
8 for private placements. They have to have it in the private  
9 placement documents, a report that talks about the value of  
10 the technology, because when you are trying to get people to  
11 invest in start-up companies, they want to know what they  
12 are investing in.

13 For new companies, very often the only thing  
14 they have is patent technology. And so I have been  
15 contacted several times to do an investment analysis of  
16 technology.

17 So that's my consulting practice.

18 Q. Could you just tell the members of the jury some of  
19 your clients in that type of work?

20 A. Okay. For consulting, I have worked for Baxter  
21 Healthcare, giving them royalty rate information for  
22 licensing artificial blood. I have also done work for  
23 Motts, giving them royalty rate information and consulting  
24 for a technology that had to do with smoothies when they  
25 were considering going into the smoothie industry.



Parr - direct

1 infringed, those products. Is that correct?

2 A. That's correct.

3 Q. In performing this analysis, about how much time did

4 you spend?

5 A. Well, about probably now 100 hours into my efforts

6 leading up to today.

7 Q. And you are compensated for your time. Correct?

8 A. Yes, I am.

9 Q. Just to be clear, do you stand to make more money if

10 Finjan wins or more money if Secure wins? How is it

11 determined?

12 A. No, I don't make a dime depending on the outcome. I

13 just get paid for my work and for my opinion at \$500 an hour

14 and the outcome does not affect my compensation.

15 Q. Okay. Going into your analysis, you have a general

16 understanding of what the defendants do in terms of what

17 products they are selling that are alleged to infringe?

18 A. Yes, I do.

19 Q. Would you tell us?

20 A. I look at them as, well, there is WebWasher 5.1, which

21 is a, what I am calling malware protection. It protects a

22 network from viruses and things called farming and fishing

23 and other terrible threats that float around the Internet.

24 That is a software product.

25 I also understand there is CyberGuard TSP

594

Parr - direct

1 product, which does a similar protection, and it's a

2 hardware product. So instead of just software, you get

3 software I believe imbedded in a piece of hardware.

4 Then I understand there is also another hardware

5 or appliance product called WebWasher. And those are the

6 products at issue here.

7 Q. Okay. In terms of determining, you determining, you

8 mentioned a royalty, what do you do -- first explain what a

9 royalty is and second explain how -- what do you use to

10 determine that royalty, in general terms, financial

11 documents and the like?

12 A. Okay. Well, a royalty is a form of tribute. I think

13 it even comes back from medieval times when people had to

14 pay tribute to the king for the use of the land or for the

15 use of the farm or for killing deer in his land.

16 It has come to mean now payment for use of

17 technology or for use of trademark. It's typically most,

18 most all the time a percentage of the sales, a percentage of

19 the selling item.

20 So if you are going to use my technology to make

21 a product, you will pay me a royalty on each one that you

22 sell. Kind of like renting my technology, but it's called a

23 royalty payment instead of a rental payment.

24 Q. Just in general terms, and we will get more specific

25 later, what do you use to determine that royalty?

Parr - direct

1 A. Well, you definitely want to look at the profits of

2 the product that's using the technology. Then you want to

3 consider the importance of the technology as it's used for

4 generating sales, possibly generating additional sales of

5 other products. You want to look at whether it's a growing

6 product or something that is going to die off soon.

7 Those are the general things. Is it important

8 in selling a product? What are the profits that are being

9 made from it? That type of thing.

10 Q. You mentioned "product." Did you look at the product

11 that is accused to infringe or the general product or the

12 company itself? What exactly are you looking at?

13 A. If we were going to do a deal for licensing

14 technology, we would have to come to some agreement about

15 what the profit margins are that you are going to make using

16 my technology. I don't care what the profit margins are

17 from your corporation. Your corporation might be making a

18 lot of different products. Some are super-profitable. Some

19 might be just mediocre. But what your company is making as

20 a bottom line has nothing really to do with the technology

21 that I am licensing to you for making two or three specific

22 products.

23 So when you are trying to figure out a royalty

24 rate and you are looking at financial information, it is

25 vital that you look at the profits associated with how the

596

Parr - direct

1 technology is going to be used. And it is not as

2 important -- looking at the company's overall profits is a

3 good clue to taking you where you need to go. But, more

4 importantly, if you can, you want to know what the profit

5 margin is of the product using the technology.

6 Q. Have you attempted to learn what the profit margins

7 are for the products at issue?

8 A. I have done that, yes.

9 Q. Here we have Slide G-100, please.

10 You mentioned earlier certain factors. 15

11 factors I think you said. We have a slide here, Reasonable

12 Royalty Determination. It is the Georgia-Pacific case.

13 Would you just tell us what that is exactly?

14 A. That is the case where the factors were first listed.

15 And they have been used ever since as guidance for coming up

16 with a reasonable royalty.

17 Q. And the 15 factors that you described, or that you are

18 going to describe, they are contained in that

19 Georgia-Pacific case?

20 A. That's right, from that case.

21 Q. We are going to go through these factors. Could you

22 tell us what Factor 1 pertains to?

23 A. The first factor basically says --

24 Q. Before you start --

25 MR. ROVNER: Your Honor, I have given Mr. Parr a

Parr - direct

1 copy of his expert report. I want counsel to know that.  
2 And I would ask Mr. Parr, with the Court's permission, that  
3 he be able to refer to it?

4 MR. SCHUTZ: As long as we have the same  
5 courtesy.

6 MR. ROVNER: That is fine. He has got it before  
7 him. I didn't want anyone to think it was something else he  
8 was looking at.

9 BY MR. ROVNER:

10 Q. Mr. Parr, if you need to look at your report, go right  
11 ahead. This is Slide 1. If you could tell me what Factor 1  
12 is?

13 A. The first factor is, remember, we are trying to figure  
14 out, we are looking for information to give us guidance as  
15 to what the royalty rates should be for these two parties.

16 The first thing is, let's look at the person  
17 that owns the patent, the plaintiff in this case, and what  
18 have they received? Have they licensed it to other people?  
19 Have they received royalty rates for it?

20 That is the first thing you look for.

21 Q. Have you seen any licenses that would apply to Factor  
22 1?

23 A. Well, I have seen one license but I don't believe it  
24 applies.

25 Q. What license is that?

598

Parr - direct

1 A. There is a license --

2 Q. Just tell me the name of it.

3 A. There is a license between Finjan and Microsoft.

4 MR. ROVNER: Your Honor, at this point, there is  
5 some -- it was produced and it's very highly confidential.  
6 We would ask that those who are not entitled to look at it  
7 in the courtroom step out for a bit. We are not actually  
8 going to show the agreement but we will be discussing it.

9 (Pause.)

10 BY MR. ROVNER:

11 Q. Mr. Parr, you mentioned the Microsoft-Finjan license.

12 Could you give us a little more detail?

13 A. Right. I read the license. It looks like for an \$8  
14 million fee, Microsoft soft received a license to all the  
15 Finjan patents. But in addition to providing the \$8  
16 million, they also provided some intangible benefits. They  
17 promised to include Finjan at a conference where they would  
18 be featured side by side at a display booth. I think it was  
19 a big conference.

20 They also were promised that they would be  
21 participating in a "Webinar" with Microsoft. There would be  
22 press releases allowed to talk about the prestige of Finjan  
23 being associated with this investment. And those are the  
24 three, I think, things I remember.

25 But I also know from deposition testimony that

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1 people at Finjan felt this was just a fantastic endorsement  
2 of their company and their technology because Microsoft was  
3 willing to not only pay money but give them these other  
4 intangibles.

5 The reason I said I don't find this useful,  
6 though, for the royalty analysis is because, in a sense, I  
7 don't know the total amount of value that Microsoft  
8 provided. I know they paid \$8 million in cash. But I don't  
9 know how to determine in economic terms, especially, the  
10 value of the prestige, the endorsement by Microsoft.

11 Q. Why an endorsement? Was there a business arrangement?  
12 Why are you describing it as an endorsement?

13 A. Well, because of the public relations announcement.  
14 Finjan was allowed to go out and say to the world, Microsoft  
15 gave us money to get access to our patents.

16 Q. Microsoft seal of approval, something like that?

17 A. The depositions seem to indicate that is how they felt  
18 about it, that it was of tremendous value. I don't know the  
19 economic value of that.

20 So, without that, I know it's more than \$8  
21 million, but I don't know how much higher it is. And there  
22 is no running royalty, which is what we are looking for  
23 here, so I couldn't use this Microsoft license to help me.

24 Q. In fact, Finjan does not compete with Microsoft, I  
25 assume. Correct?

600

Parr - direct

1 A. Not at the time and not in any way that I have heard  
2 of since.

3 Q. Is that another difference?

4 A. Well, right. The best evidence would be licenses with  
5 royalty rates where Finjan has licensed to competitors and  
6 what royalty rate is that? That doesn't exist. We haven't  
7 got any of that. In the real world licensing, there is none  
8 of that.

9 Q. If you could go to the next factor that you have  
10 analyzed? And I will direct your attention to the board.

11 MR. SCHUTZ: Can we bring our people in?

12 THE COURT: Yes, please do.

13 BY MR. ROVNER:

14 Q. Mr. Parr, could you go to the next, we have No. 2?

15 A. The next question and answer to look for is, we tried  
16 to look to see what Finjan has received for licensing their  
17 patents and failed. The next rule is, Let's look at what  
18 Secure Computing pays for other similar technology, if they  
19 do, to put into their products. And I requested all those  
20 licenses. And none were provided.

21 So I can't answer that question. I don't know  
22 what they have paid for technology to license. I am  
23 assuming, I guess they don't license any technology, don't  
24 license or provide it.

25 Q. You asked them for it and they didn't provide it, so

# **EXHIBIT 1**

## **PART 3**

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1 that is why you are assuming they don't do it?

2 A. That's right.

3 Q. The next factor then?

4 A. No. 3, kind of define the scope, what kind of license

5 are we talking about? We are trying to price something. So

6 what is it we are pricing? We definitely know we are

7 pricing technology, but what are we pricing? Are there

8 limitations to the use?

9 Basically, this deal would turn on a

10 nonexclusive use for the United States. So what price would

11 you charge for that kind of license.

12 Q. So we are clear, I want to make sure we keep track of

13 all this, again, we are talking about this so-called

14 hypothetical negotiation, something that didn't happen but

15 you are treating it as if it did for purposes of determining

16 a royalty rate. Is that correct? Is that fair?

17 A. Yes. I am trying to say what I think would happen if

18 it did.

19 Q. Could you go over to the next factor, Mr. Parr?

20 A. One of the factors that you are supposed to consider

21 is, in this hypothetical negotiation, what's the established

22 policy of the person that owns the technology. Quite often,

23 corporations don't want to license keystone technology.

24 Sometimes they licence peripheral technology

25 that they are not using directly. But other times they will

1 Q. They don't involve proactive scanning?

2 A. That's right. I understand they are unrelated to

3 proactive scanning.

4 Q. Well, if Finjan does not want to license in their core

5 area to a competitor, yet -- that's correct? That's what

6 you are saying?

7 A. Finjan, the answer to No. 4, you have got a person

8 going to this hypothetical negotiation that does not want to

9 license to a competitor because it's different than

10 licensing outside my business. I am licensing to a

11 competitor who is going to turn around and use my own

12 technology against me. I am going to lose sales, I am going

13 to lose profits most likely.

14 So I am going to want to press for a higher

15 royalty rate because of the damage that is going to happen

16 once I extend the license.

17 Q. So that would, in the list of factors, that would tend

18 to increase the rate. Is that correct?

19 A. Well, right. If you wanted to assign the effect of

20 each and every one of these factors, that would be a reason

21 to pressure upwards.

22 Q. Slide 102. This is another slide with various

23 Georgia-Pacific factors. We are now on No. 5.

24 A. We have already touched on this in the sense that

25 factors of saying, in this hypothetical negotiation, what is

602

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1 have technology that's key to their business and they

2 certainly don't want to license it because they can get more

3 benefit out of using it as an advantage, proprietary

4 advantage.

5 So what I have seen from my studies here is that

6 Finjan is not interested in licensing the patents in suit.

7 They use it themselves, their brochures say that they are

8 the only source of proactive scanning, and they say it in

9 capital letters. It leads me -- there is a lot of

10 information. But that alone leads me to believe that they

11 want to use it proprietarily, to be the only place to get

12 it.

13 So they don't want to license it. The answer to

14 that question is the established policy of Finjan is that

15 they want to use it and sell it and not license it.

16 Q. Have you seen any instances where Finjan has at least

17 been considering the idea of licensing a patent that is not

18 in their core area?

19 A. The only instance I have seen is a letter from their

20 lawyers to a company called Webroot expressing an interest.

21 There was no offer. There was no acceptance. There were no

22 terms. But there was a letter talking about, would you be

23 interested in considering licensing. And there are two

24 patents that were identified. I understand -- I know they

25 are not the ones in this case.

604

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1 the relationship between the two parties. Is one a simple

2 outside inventor, a university who is not in the business of

3 licensing to a corporation? Or are they competitors?

4 This with 4 would have a tendency to increase

5 the royalty rate, the amount that they would want, because

6 you are giving a proprietary advantage to a competitor who

7 is against you.

8 So I see the two companies, Secure and Finjan,

9 as competitors.

10 Q. PTX-120. Is this one of the documents that you have

11 reviewed in reaching that conclusion that they are

12 competitors?

13 A. Yes, it is. It is a WebWasher product talking about

14 why companies use WebWasher over Finjan. So this pretty

15 clearly indicates to me that WebWasher is talking about a

16 Finjan product and the relative choice between their two

17 products is the first indication I got that there is

18 competition between the companies.

19 Q. Because a company is writing why their company chooses

20 their product over someone else's?

21 A. That's right. I don't think a company is going to

22 bother producing something like this unless somebody is

23 competing with them. It would be like me doing an analysis

24 about why you would want to buy my services over the gas

25 attendant down the street. We are not competing.



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1 Q. Right.

2 A. So, anyway, what we were talking about, after you get  
3 to the lost profits -- I mean the gross profits --

4 Q. You said "gross profit." What is gross profit margin,  
5 then?

6 A. That is the ratio of gross profit divided by the total  
7 revenue. In a sense, what we are looking at is after I pay  
8 for the material and labor to make a product, I have 72  
9 percent of the revenue dollar left. So out of every dollar  
10 I collect from a customer, after I pay for material and  
11 labor to make the product, I still have 72.2 percent, as an  
12 example, for 2006, still left over.

13 That is the profit at that level, the gross  
14 profit to get a product in the warehouse, but it's not doing  
15 me any good there.

16 Now you have to consider what expenses are going  
17 to move it. In general, you have marketing, which could be  
18 advertising. Then you have selling expenses, which could be  
19 the salespeople out knocking at doors. Then you have  
20 general and overhead, administrative. That is back office  
21 expenses, like the home office where they do accounting and  
22 your health insurance for the employees.

23 Now, after you consider those expenses, you  
24 subtract those, and that gets you to what is called  
25 operating profit.

1 reflect a reasonable royalty. But the gross profit margin  
2 isn't what we are sharing.

3 What we are trying to share is the profit margin  
4 that's left over after you have made the product, marketed  
5 the product, paid for selling expenses and cover overhead  
6 expenses.

7 Now we know, because we have identified that  
8 profit margin, what should be split.

9 So this is just like the starting point and it  
10 shows very healthy gross profit margins but it is not the  
11 basis for making a royalty rate.

12 Q. So we have up on the board here Total Gross Profit  
13 Margin which we showed on that slide for the two companies.  
14 I am going back to Secure's financials. If you could  
15 continue down, you mentioned operating profit.

16 Could you describe that and how you got there?

17 A. These are all directly from the SEC report. You  
18 subtract selling and marketing. There is a research and  
19 development cost, general administrative. Then there is  
20 amortization of purchased intangible assets. And they had  
21 an operating expense in one of the years of the litigation  
22 settlement.

23 They add up all of their zero total expenses.  
24 And when you subtract that from the gross profits that we  
25 have already talked about, you get the bottom line operating

618

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1 And the operating profit margin would be to take  
2 the operating profit and divide it by total revenues.

3 Q. Okay. If you could go to Slide 108, please.

4 Now, do you recognize this slide, Mr. Parr?

5 A. Yes.

6 Q. Would you briefly describe what this is?

7 A. Those are gross profit margins on a consolidated  
8 basis, say, reflecting all of the products of those two  
9 companies, for the years shown, and those are the gross  
10 profit margins.

11 Q. Do these come from the exhibits to your report,  
12 Exhibits 1 and 2 that we showed for Secure and CyberGuard?

13 A. I think that's the source. But the ultimate source  
14 would be the Security and Exchange Commission 10-K filings.

15 Q. Those -- I know it is tough to see -- but those are on  
16 the left?

17 A. The cover pages are on the left, right.

18 Q. Okay. So these represent gross profits for the  
19 company. Is that correct? For the two companies?

20 A. For each of those years, that's right.

21 Q. Does that give you enough information to come up with  
22 royalty rates in this case? What else do you have to do?

23 A. No. Because, remember, a royalty rate is a sharing of  
24 the products. You are going to make a product, and use my  
25 technology, we are going to share the profits and that will

620

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1 profits before income taxes.

2 Q. What do you need to do, if anything, to get to profit  
3 margins for the products we are talking about?

4 A. Well, the first thing I did was, we are trying -- we  
5 are trying to figure out the profit margins of products that  
6 the company sells. And you eliminate expenses that are not  
7 related to the product. I have licensed you technology so  
8 you can make a product, and I want a share of those profits.

9 Litigation settlement costs has nothing to do  
10 with, say, my technology and how you are using it with your  
11 product. It could be completely unrelated. It is a  
12 non-recurring expense. It is a one-time thing.

13 And in our deal, the royalty negotiation, I am  
14 not going to participate or pay you for that. I am not  
15 going to allow for that to be part of the calculations of  
16 your operating profit margin.

17 I don't know why you got sued. I don't know why  
18 you decided to settle instead of fight. But it is a  
19 non-recurring expense, it has nothing to do with my product.  
20 You don't get to charge that against the operating profit  
21 margins we are going to split.

22 The same thing is true with research and  
23 development. You are spending money, lots of it, companies  
24 do and should, to develop new products that they will sell  
25 and make new sales and new profits.

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1 But that should come out of your split. We  
2 split the operating profit margins of the products I have  
3 licensed you to do, I don't care what you do with your  
4 share. And you can and want to maybe spend it on research  
5 and development. But that's your decision. That doesn't  
6 come out of the profits before we do the split. Because I  
7 am not going to get anything out of future research and  
8 development with new products going forward.

9 I also eliminate the one-time event or  
10 acquisitions. These, again, are extraordinary expenses with  
11 acquisitions of the amortization of purchased intangibles.

12 There is a non-expense, actually, because it's  
13 an amortization of cash payment that was made. So it's not  
14 really an expense of cash going out the window. It is an  
15 accounting expense. So I have reversed those. Those are  
16 the only three elements I have reversed.

17 Q. So the numbers -- could you point out -- do you have a  
18 pointer there?

19 A. Yes.

20 Q. If you could point out, you have made adjustments on  
21 this particular exhibit. Is that correct?

22 A. Yes.

23 Q. Could you point out what they are, just so we are  
24 clear?

25 A. All right. For up here, they are the expenses that

1 One year we also have this expense for  
2 amortization of intangibles, and I reversed that. Once I  
3 made those adjustments, I have what I want to use as the  
4 operating expenses to subtract from the revenues. When I do  
5 that, I get the profit margins on the bottom of 16.1  
6 percent, 30.9, and 26.9 percent. And those three over that  
7 three-year period averages approximately, I think it's 25  
8 percent.

9 Q. Now, explain to me and to the jury, if you would, why  
10 does operating profit matter when we are trying to get to  
11 this royalty number?

12 A. Remember we are going split profits. You are using --  
13 say you are using my technology to make a product. And you  
14 are going to hire the salespeople, make provisions to  
15 manufacture, hold inventory, you are going to do a lot of  
16 things. So we are going to split it.

17 First, we have to define what profit we are  
18 going to split. And that's what I am trying to identify  
19 here. All I have got is the consolidated financial  
20 statements for Secure Computing. And I am saying there  
21 could be other expenses in there that have nothing to do  
22 with the product we have licensed. But I can't identify  
23 them.

24 I do know, though, the research and development  
25 should not be associated with the profit margin on the

622

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1 were reported on the 10-K, showing total expenses of the  
2 whole company. I want to adjust the expenses. So to get to  
3 the total adjusted operating expenses, I took the entire  
4 amount of this litigation settlement and decided settlement,  
5 and decided that's got nothing to do with licensing the  
6 technology of the ProActive scanning product, so I  
7 subtracted it. It's not an expense that should be  
8 associated with the ProActive scanning product.

9 Over here is an adjustment I made for research  
10 and development. Remember I said, I don't think we should  
11 include those as expenses against a ProActive scanning  
12 product because you are making new?

13 But if you look up here, the research and  
14 development, it was \$34 million. I made it 27. That's  
15 because I found an internal Secure Computing memo that said,  
16 20 percent of the R&D expenses are associated with current  
17 sales of products. Okay?

18 Then you have got some expenses that are  
19 associated with current sales. And I only want to eliminate  
20 those that are most likely associated with future products  
21 that are unrelated. So I only took out, I took out 80  
22 percent of the total amount up there.

23 Then for amortization of expenses -- by the way,  
24 I did that for each year, 80 percent, 80 percent, 80  
25 percent.

624

Parr - direct

1 product I have licensed, you have made.

2 Amortization shouldn't have anything to do with  
3 it. And settlement of the litigation, a one-time  
4 non-occurring event, that should have nothing to do with it.  
5 Q. I see. Well, earlier you testified that there would  
6 be different royalty rates for the software and for  
7 appliances.

8 A. That's right.

9 Q. This operating profit margin, which you said you used  
10 to get to a royalty, how do you use -- these numbers are not  
11 specific to the product. How do we get to the product so we  
12 can get the ultimate answer?

13 A. By going back and looking at the gross profit margin,  
14 unfortunately, Secure Computing doesn't do this on a  
15 product-by-product basis.

16 Q. You haven't seen any material to that effect?

17 A. That's right. To be fair, not all companies do. But  
18 they do look, say, I have information of gross profit on a  
19 product-by-product basis.

20 So for the hardware, appliance products, the  
21 information I found said that their gross profit margin is  
22 about 70 percent. Well, that ties right into what we have  
23 up here of about 70 percent, and also what CyberGuard shows  
24 as 68.9, 70 percent.

25 That let me conclude that the average 25 percent

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1 that I have just calculated can be associated with the  
2 hardware products, because they have a gross profit margin  
3 that ties in with these gross profit margins that's close.

4 So for the operating profit margin, to associate  
5 with the hardware projects, I have used the average of my  
6 adjusted profit margins and said it's 25 percent.

7 Q. Have you also concluded that it was 25 percent?

8 A. No.

9 Q. Could you explain?

10 A. In my report, I had used 35 percent, because I thought  
11 I had enough information to say that the appliances were ten  
12 percent more profitable at the gross profit margin level  
13 than this document shows on a consolidated basis.

14 I don't have enough to really go there, because  
15 what I do see is that the appliances are pretty much at the  
16 70 percent profit margin area -- 72, 70, 75. The reason I  
17 looked is, I said, There is no basis to add this ten percent  
18 increase to the 25. So I am telling you my report used 35  
19 percent operating profit margin for appliances, but I am  
20 telling you now the right answer is 25 percent, not the 35.

21 Q. What effect does that have, if any, on your ultimate  
22 conclusion of a royalty rate for appliance?

23 A. It lowered the royalty rate.

24 Q. So the number, your eight percent for appliances is  
25 lower than what you had in your report for November?

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1 how it's embodied, and benefits of the invention.

2 The first thing is the character of it is, it's  
3 a product. It's not a process that saves you money in  
4 manufacturing. It is an actual product that has features  
5 and functionality that consumers want.

6 The advantage of it is that it's ProActive  
7 scanning or I guess you could say instantaneous scanning,  
8 there is no delay between the entrance, the introduction of  
9 a new threat, and the time that this software captures it.

10 The reason that is better than the old modes, I  
11 understand the old modes, where you buy software, it has a  
12 list of things to hunt for that it might see coming into  
13 your computers and it nails them. Something new is  
14 introduced, your computer is vulnerable until the vendor of  
15 your software issues updates, or a patch. Then you get the  
16 patch and put it in your computer. Now you are safe against  
17 the new thing. But the time in between getting the update  
18 and the introduction in the Internet of a new ugly malware,  
19 you are vulnerable.

20 This I understand is the first invention to  
21 solve that problem. So that kind of addresses this factor.  
22 And it also makes it kind of a keystone technology.

23 This has become fundamentally important in the  
24 industry. It's not like a little feature that's an add-on.  
25 It's core to these products now.

626

Parr - direct

1 A. That's right.

2 Q. What about software?

3 A. Software, if you look at software and compare the  
4 software product profit margins to the operating profit  
5 margins here and in CyberGuard, software product gross  
6 profit margins are enormously higher. They are not in the  
7 70s, 75 or 80. There is testimony by someone at Secure  
8 Computing that they are 99 percent. So if you have got  
9 product in this mix, in this, that is making 99 percent, by  
10 the time you go through all of the other expenses that I  
11 have done, then the operating profit margins for software  
12 would be more like 55 percent.

13 So if your gross profit margin for the  
14 appliances is 70 percent, and I made no changes, operating  
15 profit margins associated with them is 25 percent, but if  
16 your gross profit margin for products is 30 percent higher  
17 because it's 99 percent, then you have got to make an  
18 adjustment.

19 And I am saying the operating profit margin I am  
20 associating with the software is 55 percent.

21 Q. I think we were up to Factor 9 now. Could you  
22 describe what Factor 9 entails?

23 A. I kind of addressed these together. It's pretty much  
24 talking about, say, the utility and advantage of the  
25 technology that the dispute is about, and the character of

628

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1 Q. Okay. Your description was much briefer than what we  
2 have heard from for the past couple days on this. You are  
3 not an expert in the field of ProActive scanning? You are  
4 attempting to put your -- describe what you have been told.  
5 Correct?

6 A. I am describing my understanding of the technology and  
7 why it's important.

8 Q. You are an electrical engineer, but you are not coming  
9 into this Court as an expert in the technology at issue?

10 A. That's correct.

11 Q. So in Factor 9, you concluded that this is something,  
12 you said "keystone." Could you elaborate on that?

13 A. Keystone, fundamental. It is not what I would call an  
14 add-on feature. It is not what I would call a side benefit.  
15 It's fundamentally important to the product and the  
16 product's viability.

17 Q. Have you looked at any documents from Secure that  
18 would confirm that for you?

19 A. Yes.

20 Q. So you did more than just talk to people, you actually  
21 looked at things in this record. Is that correct?

22 A. Right. I saw evidence that supports this in Finjan  
23 documents, Secure documents, and outside third-party  
24 documents.

25 Q. Okay. You have seen this before. We focused on

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- 1 Factor 3. Is that something that again would guide you in  
 2 terms of whether this technology is important or not?  
 3 A. Right.  
 4 Q. In relative terms to the Georgia-Pacific factors?  
 5 A. Yes. It's obviously got more functionality and  
 6 utility, which addresses Factors 9 and 10, because in a  
 7 planning session for products, this has been identified as a  
 8 the number three item that needs to be developed on their  
 9 own or create something similar to Finjan's.  
 10 Q. It is talking about the ProActive security. Right?  
 11 A. Oh, yes.  
 12 Q. Could you go to PTX-24, please.  
 13 You talked about documents from third parties.  
 14 Is this one of them?  
 15 A. Yes.  
 16 Q. What is this document?  
 17 A. This company, IDC, provides market research. They  
 18 talk about the state of an industry, the players in an  
 19 industry, trends in the industry. And that's what this  
 20 document is.  
 21 Q. Could you go to 23228, please.  
 22 A. This is the conclusion of the, pretty much of the  
 23 report. I am having trouble reading that.  
 24 Q. Could you blow up the last two paragraphs.  
 25 A. Thank you.

630

Parr - direct

- 1 Q. This is the conclusion, essential guidance. Is that  
 2 right?  
 3 A. In here, I can't find the exact same sentence, for me  
 4 to get to the report, they are talking about ProActive  
 5 scanning is fundamentally important if you are going to have  
 6 a competitive product in the security area.  
 7 Q. Well, could you go over to the first sentence of the  
 8 second paragraph and highlight that.  
 9 A. IDC believes that a multi-layered approach to the  
 10 security infrastructure is necessary to thwart the threats  
 11 outlined in this document.  
 12 Q. Could you go over to the first paragraph, the first  
 13 line?  
 14 A. In the first, the first three lines, more ProActive  
 15 security products and services. The spotlight is on these  
 16 things and there is a growing need for them. So that is a  
 17 fundamental conclusion of this report.  
 18 Q. Okay. What does that do to your analysis, if  
 19 anything?  
 20 A. Well, it provides me support for what I have said  
 21 before, that we are not talking about some nice optional  
 22 feature. Products are having to have ProActive scanning,  
 23 and it makes it fundamentally important to the product and  
 24 makes it fundamentally important, say, for you to take a  
 25 license from me. It's not an option where you can say,

Parr - direct

- 1 Well, I don't really need this feature so I am not going to  
 2 pay you. It addresses Factors 9 and 10. This is important.  
 3 Q. Now, you said -- could you go back over to Slide 103,  
 4 please.  
 5 You said you take Factors 9 and 10 together?  
 6 A. I tend to, yes.  
 7 Q. Why is that?  
 8 A. Well, normally, the information you discover addresses  
 9 both of these things at the same time. The questions are  
 10 kind of similar. You are talking about what is the  
 11 advantage of the property and what is the commercial nature  
 12 of it and what benefits are involved.  
 13 When you are talking about the advantages and  
 14 utility, in Factor 9, it leads you directly to the benefits  
 15 of the invention in what you asked for in No. 10. So I tend  
 16 to find information that answers both at the same time. So  
 17 rather than repeat the same paragraphs over and over twice  
 18 in the report, I just put the two together and addressed  
 19 them together.  
 20 Q. Could you go over to Slide 104, please.  
 21 Factor 11, what significance, if any, does that  
 22 play?  
 23 A. Factor 11, did you say?  
 24 Q. Yes.  
 25 A. Oh, well, one of the things you consider when we are

632

Parr - direct

- 1 splitting the royalties, did you make any benefit from it?  
 2 Are more customers coming to you? What has the person that  
 3 has allegedly infringed gotten from it?  
 4 In my report, I showed that they have \$66  
 5 million of sales over the period of infringement. And the  
 6 sales forecast, in addition, of Secure Computing show at  
 7 least out to 2010 with a, I think it's an average annual  
 8 compound growth rate of 14 percent, which is pretty healthy.  
 9 Q. Could you go to G-111, please.  
 10 Is that what you are talking about?  
 11 A. Right. So the WebWasher product is shown to go from  
 12 just over 17 million in 2005 to over 32 million, maybe it's  
 13 even 35 million, by 2010. And the TSP product is at a lower  
 14 level but still keeping pace and growing at about the same  
 15 annual average increase rate.  
 16 So this shows evidence not only of what we found  
 17 them selling, I think in my report it's 66 million,  
 18 approximately. Maybe it's 50 million. But they have sold  
 19 tens of millions of dollars. Not only that, they are  
 20 expecting and showing and anticipating to sell many more  
 21 tens of millions.  
 22 Q. Okay. Do you take this into account, these  
 23 projections which show growth, I am sure -- you are talking  
 24 about profits and talking about growth. If the company or  
 25 companies have not made money in the past, and we have heard



Parr - direct

1 some testimony about who is making money, who is not, and  
 2 some of the defendants are not making money, have not made  
 3 money in every year; how does that affect your analysis?  
 4 A. That's why I am trying to somehow identify profit  
 5 margins associated with the products. If I license  
 6 something to you for a royalty, and then you make great  
 7 sales of it and have future expectations of sales on it, but  
 8 the company loses money because of other products or other  
 9 circumstances or the fact that maybe a building burned down  
 10 and you have an extraordinary expense, in a sense, that  
 11 doesn't release you from paying for the royalty of a  
 12 profitable product.

13 When determining a royalty rate, I don't care  
 14 what the profitability is on your entire company. I want to  
 15 try to figure out what's the profitability of the product  
 16 that you are going to make using my technology.

17 That is what is important. Not the entire  
 18 company's profitability.

19 Q. Okay. Thank you.

20 We have heard testimony in this trial about what  
 21 products are alleged to infringe. Just so I am clear, you  
 22 mentioned the WebWasher software. You mentioned the  
 23 WebWasher appliance. And you mentioned the CyberGuard TSP  
 24 appliance. Correct?

25 A. That's right.

634

Parr - direct

1 Q. If it is an issue over the CyberGuard TSP, you have  
 2 been told to assume that the CyberGuard TSP appliance  
 3 infringes. Is that correct?  
 4 A. Oh, definitely, I have been asked to assume that  
 5 because I don't have the technical capability to say, Yes,  
 6 that one does, and, No, that one doesn't. I assumed that  
 7 all the TSP, plaintiff's products, should be in the royalty  
 8 base, that you should have to pay a royalty on them.  
 9 Q. Your understanding is because the WebWasher component  
 10 is part of the CyberGuard TSP appliance. Correct?

11 A. Yes, that's right.

12 Q. Have you seen anything in the defendants' own papers  
 13 to support that?

14 A. Yes, I have.

15 Q. Could you turn to 263, please.

16 Do you recognize that?

17 A. Yes.

18 Q. What is it?

19 A. I think it's a selling document that describes the  
 20 CyberGuard TSP firewall product. In the first line, it says  
 21 that the CyberGuard TSP enterprise, gateway security, and  
 22 appliance provides ProActive positive security against.

23 So I basically, as I said, took the assumption  
 24 that was handed to me, but here is evidence that supports  
 25 giving me that assumption.

Parr - direct

1 Q. I notice that some of the right side is cut off, I  
 2 apologize for that. If you could go to the bottom half of  
 3 the document. It says, This CyberGuard TSP Firewall, do you  
 4 see that?

5 A. Yes.

6 Q. It has a list of features. Correct?

7 A. Yes.

8 Q. And if we go up to the next page, it says, WebWasher  
 9 Content Filtering. Correct?

10 A. Yes, it does.

11 Q. That is in a marketing piece, as far as you know, from  
 12 the defendants. Correct?

13 A. Yes, that's right.

14 Q. Would you go to JTX-46, please.

15 Do you recognize this document?

16 A. Yes.

17 Q. Could you describe for the jury what that is?

18 A. It's guidelines for WebWasher support in the TSP v6.4.  
 19 Another indication that there is WebWasher ProActive  
 20 scanning functionality in a TSP product.

21 In the middle of the second sentence, the TSP  
 22 v6.4 appliance software real lease includes an embedded  
 23 WebWasher server. As I understand the WebWasher server,  
 24 that would include the ProActive scanning functionality. So  
 25 again, it looks like the TSP has allegedly infringing

636

Parr - direct

1 technology.

2 Q. Could you go over to the next paragraph, please, the  
 3 second sentence.

4 Would you highlight that, please?

5 A. Do you want me to read it?

6 Q. Yes.

7 A. "Therefore, it will come as no surprise that Secure  
 8 Computing has always been and continues to be very excited  
 9 about WebWasher functionality being imbedded in TSP, and we  
 10 now report" --

11 Q. That is what I needed.

12 At least Secure Computing is saying that  
 13 WebWasher functionality is being imbedded in the TSP.  
 14 Correct?

15 A. That's right. So when I was asked to assume that TSP  
 16 products should be part of the royalty base, and include  
 17 them in the calculations, it seemed to be not much of a  
 18 stretch to accept that assumption.

19 Q. Can we go back to G-104.

20 Factor 12, could you describe for us what Factor  
 21 12 requires?

22 A. Now we are starting to get into using what we have  
 23 gathered. This is the portion of the profit or the selling  
 24 price that may be customary in the particular business or  
 25 comparable businesses to allow for use of the invention. 13

Parr - direct

Parr - cross-examination

1 You don't get what is called "freedom to operate."  
 2 That is what we are really talking about,  
 3 freedom to sell these products, freedom to make these profit  
 4 margins that I have talked about, freedom to get the  
 5 ancillary sales, new products, new clients. That is what  
 6 you want. I decided it's worth 18 percent for software,  
 7 eight percent for hardware, and it doesn't matter how many  
 8 patents can be your roadblock. You have to pay that to get  
 9 through the gate.  
 10 Q. That is, in fact, what the parties are doing at the  
 11 time of the hypothetical negotiation, they are trying to  
 12 come up with a number or numbers that will give them the  
 13 freedom to operate?  
 14 A. During the hypothetical negotiation, suppose I was  
 15 licensing technology from you, this is a product we are  
 16 going to make, this is the profit I am going to make, here  
 17 is the royalty I am going to pay you, we agreed.  
 18 From your side of the deal, I want every single  
 19 patent, because I want freedom to operate. If you say,  
 20 Well, I only have one, but it's a strong patent and it can  
 21 stop you, then that's what I am going to pay for, because  
 22 what I want is freedom to operate, so you are going to give  
 23 me all 100 or just one.  
 24 MR. ROVNER: Thank you, Mr. Parr. No further  
 25 questions.

1 million?  
 2 A. That was the cash amount they paid.  
 3 Q. Right. They got freedom to operate?  
 4 A. They got the rights. But I don't know that they are  
 5 operating. But they do have the rights to operate.  
 6 Q. They have got freedom to operate. They don't have to  
 7 worry about these patents?  
 8 A. They don't have to make payments in the future.  
 9 Q. That's right?  
 10 A. That's right.  
 11 Q. That \$8 million covers Microsoft from now through the  
 12 end of time?  
 13 A. Plus the intangible assets that they provided. But  
 14 the \$8 million plus all of those additional intangibles  
 15 covers them for as long as the patents are valid.  
 16 Q. The patents are about 20 years?  
 17 A. I think two of them go to 17, so that makes ten years.  
 18 I think one of them expires a little after that.  
 19 Q. Microsoft paid -- that license was concluded in what  
 20 year?  
 21 A. I don't recall the year.  
 22 Q. It would have been 2005. Is that right?  
 23 A. I don't recall.  
 24 Q. Microsoft got, let's say, 12 years of freedom to  
 25 operate for \$8 million. Right?

650

Parr - direct

1 THE COURT: All right. Mr. Holdreith.  
 2 MR. HOLDREITH: Thank you, Your Honor.  
 3 Your Honor, I am going to mention the terms of  
 4 the agreement that we asked earlier. I am going to have to  
 5 ask Ms. Bunch to step out just for a moment.  
 6 THE COURT: All right.  
 7 CROSS-EXAMINATION  
 8 BY MR. HOLDREITH:  
 9 Q. Good afternoon, Mr. Parr.  
 10 A. Good afternoon.  
 11 Q. You just discussed freedom to operate with counsel.  
 12 Is that right?  
 13 A. Yes.  
 14 Q. Freedom to operate is the idea you pay some money, you  
 15 don't have to ever worry about this patent again?  
 16 A. No. That would be a lump-sum payment, which could get  
 17 you freedom to operate or a deal that gets me freedom to  
 18 operate and I get all the patents needed on a running basis.  
 19 I will pay you a percentage on each one and I will get  
 20 freedom to operate for as long as the license is in effect.  
 21 Q. Fair enough. You pay an amount, you get freedom, you  
 22 don't have to worry about the patent anymore?  
 23 A. Right. It could be a lump-sum amount or a running  
 24 royalty where I pay as I go.  
 25 Q. And in the case of Microsoft, Microsoft paid \$8

652

Parr - cross-examination

1 A. It's not just the 8 million. It's 8 million cash plus  
 2 the other intangibles that I understand Finjan management  
 3 valued highly and coveted.  
 4 Q. The endorsement?  
 5 A. The endorsements, the prestige of being associated  
 6 with Microsoft, the "Webinar" Convention Center, coupling.  
 7 All those things.  
 8 Q. And Microsoft has freedom to operate throughout the  
 9 world. Right? That license is worldwide?  
 10 A. It may be. I don't recall without looking at it.  
 11 Q. Now, in this case, you are proposing that Secure  
 12 Computing should pay \$10 million?  
 13 A. For past infringement, that's correct.  
 14 Q. For two years?  
 15 A. Yes. For the period of time, in effect, end of 2004  
 16 through 2007. Over two years.  
 17 Q. A little bit over two years?  
 18 A. Yes. That's right.  
 19 Q. Two years and a couple months?  
 20 A. They should pay at least 10.1 million until we find  
 21 out what the other sales we are left with.  
 22 Q. Really it is more than ten million you are proposing.  
 23 Right?  
 24 A. Yes. They should pay ten.  
 25 Q. Microsoft, 12 years, \$8 million, Secure Computing, two

Parr - cross-examination

Parr - cross-examination

1 years and a couple of months, \$10 million and then some  
 2 more?  
 3 A. Okay. But Microsoft, you get the prestige that was  
 4 valued highly by Finjan. With Secure Computing, you get  
 5 your own technology immediately being used against you and  
 6 you don't get an endorsement that has any significance.  
 7 So the thing you are eliminating from your  
 8 comparison is what Finjan highly coveted, is the prestige  
 9 associated with Microsoft, singling them out among the  
 10 thousands of small software companies as someone we are  
 11 investing in.  
 12 Q. Microsoft, under its license, it has the freedom to  
 13 make a product. Right?  
 14 A. Yes. The license would give them freedom to enter if  
 15 they wanted to.  
 16 Q. And if Microsoft wants to compete mercilessly with  
 17 Finjan and drive them out of business using Finjan's  
 18 technology, they have the absolute right to do that under  
 19 the license?  
 20 A. I would believe they could do that if they decided  
 21 they wanted to.  
 22 Q. And Microsoft is one of the largest if not the largest  
 23 software company in the world?  
 24 A. One of the largest.  
 25 Q. Finjan would have to assume, in concluding a license

1 calculated that if Secure Computing prevails on its  
 2 patents -- you know we are going to put on a patent case?  
 3 A. That's right.  
 4 Q. If Secure Computing prevails, Finjan should pay -- do  
 5 you know what the number is?  
 6 A. I don't know the amount. It's based on the four  
 7 percent, I think.  
 8 Q. It's two percent, isn't it?  
 9 A. I don't recall.  
 10 Q. You don't remember that?  
 11 A. Don't know.  
 12 Q. And you agreed with that two percent?  
 13 A. Based on the technology that Secure is arguing about,  
 14 the lower royalty seemed appropriate.  
 15 Q. So you said, Finjan wins, they get eight to 18  
 16 percent, Secure Computing wins, they get two percent?  
 17 A. Exactly.  
 18 Q. Now, when you were applying the Goldscheider rule,  
 19 that is the rule of thumb you mentioned?  
 20 A. Yes.  
 21 Q. You apply that to net operating margin. Right?  
 22 A. No. I call it operating profit margin.  
 23 Q. Operating profit margin?  
 24 A. That's to eliminate the confusion with another level  
 25 of profit margin called net income. The difference between

654

Parr - cross-examination

1 deal with Microsoft, that Microsoft was a potential  
 2 competitor?  
 3 A. I don't know what they assume.  
 4 Q. All right. I want to talk about your calculation now.  
 5 You calculated a royalty rate, which here is eight to 18  
 6 percent. Right?  
 7 A. Yes, that's right.  
 8 Q. And you apply that to a royalty base, which is the  
 9 sales?  
 10 A. Exactly right, yes.  
 11 Q. So you multiply the percent by the dollars in the  
 12 sales number?  
 13 A. That's right.  
 14 Q. So you have to calculate those two things, first you  
 15 figure out the percent, then you figure out the sales base,  
 16 then you multiply the two?  
 17 A. Exactly.  
 18 Q. I want to talk about the royalty number first. The  
 19 percent.  
 20 A. Okay.  
 21 Q. You read Mr. Degen's report in this case?  
 22 A. Yes, I did.  
 23 Q. You know what his calculation of the royalty rate is?  
 24 A. I have forgotten. I think it's four percent.  
 25 Q. About four percent. You know that Mr. Degen has

656

Parr - cross-examination

1 the two, operating profit margin is what we talked about,  
 2 and then you can subtract interest on debt and income taxes,  
 3 and that gets you to your final net.  
 4 I am using operating margins before interest  
 5 expenses and before debt.  
 6 Q. The correct figure is operating margin?  
 7 A. That's correct.  
 8 Q. I am showing you now one of your demonstrative  
 9 exhibits that counsel showed. These are operating profit  
 10 margins that you calculated for Secure Computing and  
 11 CyberGuard?  
 12 A. That's correct.  
 13 Q. These are company-wide?  
 14 A. These would be on a consolidated basis.  
 15 Q. That is all profits?  
 16 A. That's correct.  
 17 Q. Your preference in this case is to have operating  
 18 margin specific to the products?  
 19 A. That's my preference.  
 20 Q. But you did look at operating margin company-wide?  
 21 A. That's right.  
 22 Q. And, now, these are not the actual operating profit  
 23 margins that were stated in the company's audited financial  
 24 statements, are they?  
 25 A. No, that's correct.

Parr - cross-examination

- 1 Q. You adjusted them?
- 2 A. That's right.
- 3 Q. You reversed some research and development expenses?
- 4 A. That's right.
- 5 Q. And we are going to look in a moment in the financial
- 6 statements. The audited financial statements have a
- 7 different operating margin number. Right?
- 8 A. Because they include the expenses I reversed, that's
- 9 correct.
- 10 Q. And the effect of your reversing expenses, that was to
- 11 raise the operating margins?
- 12 A. That's right. The effect is to increase profit
- 13 margin.
- 14 Q. That leads to a higher royalty percentage?
- 15 A. Exactly.
- 16 Q. So you changed the audited financials and came up with
- 17 a higher number?
- 18 A. Well, I like to think that I adjusted them to get to
- 19 the more appropriate royalty -- I mean operating profit
- 20 margin for application of the 25 to 33 percent rule.
- 21 Q. You know that Secure Computing began selling WebWasher
- 22 in what year?
- 23 A. I think that they acquired CyberGuard in January of
- 24 2006.
- 25 Q. 2006, exactly. That's shown right here. Correct?

658

Parr - cross-examination

- 1 A. Yes.
- 2 Q. And CyberGuard -- so Secure Computing, they were not
- 3 selling WebWasher in 2004 or 2005?
- 4 A. That's correct.
- 5 Q. And CyberGuard began selling WebWasher in what year?
- 6 I will help. It is October 1994. Right?
- 7 A. That's when they started selling WebWasher 5.1 as
- 8 infringing. I don't know if there was a version they sold
- 9 before that.
- 10 Q. Thank you for being precise. I meant to ask, When did
- 11 CyberGuard start selling WebWasher with ProActive scanning?
- 12 A. That would be around the hypothetical date,
- 13 October-November of 2004.
- 14 Q. So the only full year for which you have an operating
- 15 margin for CyberGuard selling WebWasher with ProActive
- 16 scanning was 2005?
- 17 A. Yes.
- 18 Q. So, we apply the rule of thumb to this operating
- 19 margin percentage if we are doing it on a company-wide
- 20 basis. Right?
- 21 A. With no further adjustments for software versus
- 22 hardware?
- 23 Q. Right.
- 24 A. All right. Go ahead. Hypothetically.
- 25 Q. But that's the correct -- it's operating margin,

Parr - cross-examination

- 1 that's what you take a quarter to a third of. Right?
- 2 A. That's right. But I wouldn't use these exactly as you
- 3 are talking about it.
- 4 Q. I realize that.
- 5 A. Okay.
- 6 Q. If you take a quarter to a third of the 12.9 percent,
- 7 what is that?
- 8 A. I don't have a calculator on me.
- 9 Q. A quarter to a third of 13 percent, is that about
- 10 three to four?
- 11 A. Four percent, about.
- 12 Q. Three to four.
- 13 If you take a quarter to a third of the 16.1
- 14 percent, what is that?
- 15 A. Four to five.
- 16 Q. Four to five percent. All right. Mr. Parr, I know
- 17 this is very hard to see, but this is your Exhibit 1.
- 18 Do you recognize that?
- 19 A. Yes, I do.
- 20 Q. And this is the calculation you did which resulted in
- 21 the 16.1 percent we just saw. Right?
- 22 A. Yes.
- 23 Q. What you did is you reversed those expenses?
- 24 A. Right. In a sense, I took them out of the expenses
- 25 because I am trying to identify expenses that are

660

Parr - cross-examination

- 1 appropriate to associate with the products. And I decided
- 2 these are not appropriate so they shouldn't be part of the
- 3 expenses that lead to an operating profit margin.
- 4 Q. Did you reverse revenues from any other products?
- 5 A. No, because I am looking for a profit margin
- 6 associated in this case with total revenues.
- 7 So the revenues here are for existing products,
- 8 in total, and I am taking out expenses that have nothing to
- 9 do with the sales of those total revenues.
- 10 So I left all expenses, except for the ones that
- 11 change, because they have nothing to do with all the
- 12 revenues. So I wouldn't change any revenue numbers.
- 13 Q. So you just adjust the expenses but not the revenues.
- 14 Is that fair to say?
- 15 A. Well, it would be wrong to adjust the revenues.
- 16 Q. That's your opinion?
- 17 A. Okay, yeah, that's my opinion.
- 18 Q. Now, I am putting side-by-side here -- I am sorry. I
- 19 will show you the whole document. This is the 10-K of
- 20 Secure Computing for 2006. It's JX-11. And you took the
- 21 numbers before you adjusted them out of this 10-K. Right?
- 22 A. I believe that's the page. I haven't got it in front
- 23 of me. Those look like the numbers.
- 24 Q. And I don't want to make you guess. Do you have a set
- 25 of your demonstratives there in front of you?



Parr - cross-examination

Parr - cross-examination

1 A. Total sales, right. Once we come up with the margin  
 2 we use that to derive the royalty rate. Then we need a  
 3 royalty base, what's called royalty base. That would be the  
 4 sales, that's right.  
 5 Q. If somebody said, you know, the royalty here really  
 6 should be four percent, not 18 percent, the first thing you  
 7 would do is, you would multiply this 49 million by four  
 8 percent, not 18 percent?  
 9 A. Just because somebody says it doesn't mean I would do  
 10 it. If somebody decides that they want to use a four  
 11 percent, that would be the thing to do.  
 12 Q. Right. Then the other thing you have to look at is  
 13 what is included in this 49 million?  
 14 A. That's right.  
 15 Q. Did you take all of the sales of WebWasher around the  
 16 world when you calculated that number?  
 17 A. Yes.  
 18 Q. I understand. This is software.  
 19 A. I was told to include non-U.S. sales.  
 20 Q. You also included sales to the federal government?  
 21 A. Absolutely, yes.  
 22 Q. And you also included sales of WebWasher regardless of  
 23 whether the ProActive scanning module was licensed and  
 24 available to the customers?  
 25 A. Well, the product scanning feature was in the product,

1 Q. I just want to get back to Microsoft for a second.  
 2 You know that Microsoft has revenues in the many billions of  
 3 dollars and that is a multiple, that is many, many times  
 4 Secure Computing's annual revenue?  
 5 A. You trailed off after saying, Microsoft has sales in  
 6 the many billions.  
 7 Q. I am sorry. Microsoft has sales in the many billions?  
 8 A. Yes.  
 9 Q. That is many times the revenue of Secure Computing?  
 10 A. Yes.  
 11 Q. You know the Microsoft license excludes -- never mind.  
 12 I am going to withdraw that question because of the people  
 13 in the courtroom.  
 14 Now, Finjan offered a license of its portfolio  
 15 to a company called Webroot. Isn't that true?  
 16 A. No. They offered two unrelated patents to Webroot.  
 17 Q. I am showing you now a letter, which is Defendants'  
 18 Exhibit 1305. This was Exhibit 3 at your deposition.  
 19 A. Yes. It says, Regarding offer to license, then it  
 20 lists two patents. And that's what it's regarding.  
 21 Q. That is what you are pointing out. This is an offer  
 22 to license two patents?  
 23 A. That's right.  
 24 Q. I want you to read a little further down. Let me show  
 25 what this letter is. This is a letter to a fellow named

670

Parr - cross-examination

1 it infringes, so I included it.  
 2 Q. So regardless of whether it was unlocked, you included  
 3 it?  
 4 A. That's correct.  
 5 Q. The same is true for TSP here, you have \$12 million  
 6 worth of sales. That's all the sales of CyberGuard TSP,  
 7 regardless of whether the WebWasher ProActive scanning was  
 8 unlocked and available to the customer?  
 9 A. Okay. I included it because I understood that the  
 10 ProActive scanning functionality was in the product. That's  
 11 why I included it. And I didn't differentiate between  
 12 whether it was turned on or not.  
 13 Q. And it was unavailable to customers, locked, they  
 14 couldn't use it, those sales are still included in this  
 15 number?  
 16 A. Because I understand that still means infringement and  
 17 it should be part of the royalty base. So I included them.  
 18 Q. Now, you know, Mr. Parr, that WebWasher customers do  
 19 selectively license modules. Right?  
 20 A. Is that the software or the appliance?  
 21 Q. With respect to both, I suppose it's the software.  
 22 A. I don't know if it applies to the software. I do know  
 23 there is an argument about whether customers turn on the  
 24 ProActive scanning or not. But I don't know if it is the  
 25 appliance or the software, too.

672

Parr - cross-examination

1 Peter Watkins, who is the chief executive officer, and a  
 2 fellow named Patrick Summers, who is the general counsel at  
 3 Webroot?  
 4 MR. ANDRE: Your Honor, may we approach?  
 5 THE COURT: Okay.  
 6 (The following took place at sidebar.)  
 7 MR. ANDRE: Your Honor, this is relating to two  
 8 different patents. The patents aren't in this case. It is  
 9 our business dealings here. It has absolutely no relevance  
 10 whatever, it is our confidential business dealings.  
 11 THE COURT: You are speaking in broad terms. I  
 12 am not sure it has no relevance. What is your reaction to  
 13 that?  
 14 MR. HOLDREITH: I am about to establish that the  
 15 next sentence in the letter Finjan wants to license to whole  
 16 portfolio of patents.  
 17 THE COURT: Even if it wasn't the whole  
 18 portfolio that Finjan doesn't license.  
 19 (End of sidebar conference.)  
 20 THE COURT: I am informed that the jury could  
 21 use a stretch break. I was going to try to work you till  
 22 4:00 o'clock on the sly, but it didn't work.  
 23 (Jury leaves courtroom at 3:32 p.m.)  
 24 (Recess taken.)  
 25 THE COURT: All right. Let's bring them back

Parr - redirect

Parr - redirect

1 Q. Right. And you have concluded that gross profit  
2 margin for software is anywhere, around 93 percent to 99  
3 percent. Right?  
4 A. Yes. That's the information I obtained, yes.  
5 Q. Could we go to PX-136, please.  
6 Do you see that, PTX-136?  
7 A. I see it.  
8 Q. If you go to the next page. I will give you a second  
9 to get it.  
10 Do you recognize that document?  
11 A. I do recognize this document.  
12 Q. Could you go over to Page 2. Is this one of the  
13 documents you used to determine the 93 percent gross profit  
14 margin for software?  
15 A. Yes.  
16 Q. Tell the jury how you came about that using this  
17 document.  
18 A. I didn't do any calculations. I just looked at it.  
19 The WebWasher-Germany is showing gross profit margin, the  
20 figures look like they are from all aspects of the  
21 WebWasher. It comes out with a gross profit margin of 93  
22 percent.  
23 Q. Did this 93 percent, did this document -- did you make  
24 any adjustments to this?  
25 A. No.

1 Q. Did you read the deposition of Ms. Putman?  
2 A. Jill Putman, that's right.  
3 Q. Do you know her to be the vice president of finance  
4 for Secure Computing?  
5 A. Yes.  
6 Q. Is she also the treasurer of Secure Computing?  
7 A. Well, yes. I just remember her as vice president of  
8 finance. I didn't remember she was also treasurer.  
9 Q. She gave deposition testimony. Correct?  
10 A. Yes.  
11 Q. Do you feel you can rely on financial information  
12 provided by the director of finance?  
13 A. Yes.  
14 Q. And is that where she said that there was a gross  
15 profit margin of 99 percent?  
16 A. Yes.  
17 Q. And you felt that was something you could rely on?  
18 A. Yes.  
19 MR. ROVNER: I have no further questions, Your  
20 Honor.  
21 THE COURT: All right. Thank you, Mr. Parr.  
22 THE WITNESS: Thank you very much, Your Honor.  
23 THE COURT: Take care. Excused.  
24 MR. ANDRE: Thank you, Your Honor. At this  
25 time, Plaintiff, Finjan Software, rests its case.

682

Parr - redirect

Parr - redirect

1 Q. This is coming from the defendants. Right?  
2 A. Right. There is no R&D in here that I need to  
3 eliminate, no ordinary expenses. I would have, but they  
4 weren't in there to need to be adjusted.  
5 Q. You also said they had gross profit margins of 99  
6 percent. Correct?  
7 A. Yes.  
8 Q. And you choose to rely on that. Right?  
9 A. Yes.  
10 Q. And you relied on it because you saw some testimony  
11 from an employee of Secure. Right?  
12 A. Secure Computing employee, that's right.  
13 Q. Could you put up the first page of --  
14 MR. HOLDREITH: Your Honor, I believe counsel is  
15 about to show a page of a witness that is not here. I  
16 object on hearsay grounds. I believe counsel is about to  
17 show a page of a deposition of another witness.  
18 MR. ROVNER: Mr. Parr relied on deposition  
19 testimony of a Secure employee. I am going to point out  
20 what that testimony was.  
21 MR. HOLDREITH: Your Honor, I have no objection  
22 if he asks Mr. Parr if he relied on it. But putting the  
23 testimony in, that is hearsay.  
24 THE COURT: Don't put it up, ask him about it.  
25 BY MR. ROVNER:

1 THE COURT: All right. So, ladies and  
2 gentlemen, as a predicted, Finjan has rested on its  
3 case-in-chief, that is its direct case. We will resume  
4 these proceedings tomorrow at 9:00.  
5 (Jury leaves courtroom at 4:00 o'clock p.m.)  
6 THE COURT: Counsel, did you say you had a set  
7 of final instructions?  
8 MS. KOBIALKA: We are getting really close to  
9 being able to file something. I think it might be a little  
10 later today, if that would be okay.  
11 THE COURT: All right. Anything before we  
12 recess?  
13 MR. SCHUTZ: Not from us.  
14 MR. ANDRE: Thank you, Your Honor.  
15 (Court recessed).  
16 - - -  
17 Reporter: Kevin Maurer

684

685

1 THE UNITED STATES DISTRICT COURT  
2 IN AND FOR THE DISTRICT OF DELAWARE  
3  
4 FINJAN SOFTWARE LTD., : Civil Action  
5 Plaintiff, : No. 06-369 (GMS)  
6 v. :  
7 SECURE COMPUTING CORPORATION, :  
8 CYBERGUARD CORPORATION, :  
9 WEBWASHER AG and DOES 1 :  
10 THROUGH 100, :  
11 Defendants. :  
12  
13 Wilmington, Delaware  
14 Thursday, March 6, 2008  
15 9:00 a.m.  
16 Day four of Trial  
17  
18 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
19 and a Jury  
20  
21 APPEARANCES:  
22 PHILIP A. ROVNER, ESQ.  
23 Potter Anderson & Corroon LLP  
24 -and-  
25 PAUL J. ANDRE, ESQ.,  
LISA KOBIALKA, ESQ.,  
JAMES HANNAH, ESQ.,  
MEGHAN WATSON, ESQ.,  
ERIS KASTENS, ESQ., and  
HANNAH LEE, ESQ.  
King & Spalding  
(Silicon Valley, California)  
Counsel for Plaintiff

1 THE COURT: Good morning. Please be seated. I  
2 understand you have a desire to discuss some Rule 50 issues,  
3 Mr. Schutz.  
4 MR. SCHUTZ: Yes, Your Honor. Defendants would  
5 move for judgment as a matter of law pursuant to Federal  
6 Rule of Civil Procedure 50, more particularly, Defendant  
7 Secure Computing Corporation, CyberGuard Corporation, and  
8 WebWasher AG, referred to in the rest of this motion merely  
9 as "Defendants," hereby move for judgment as a matter of law  
10 pursuant to Rule 50(a) of the Federal Rules of Civil  
11 Procedure as follows:  
12 That defendants do not literally infringe or  
13 infringe under the doctrine of equivalents any asserted  
14 claim of United States Patent No. 6,092,194; that defendants  
15 do not literally infringe or infringe under the doctrine of  
16 equivalents any asserted claim of United States Patent No.  
17 6,804,780; that defendants do not literally infringe or  
18 infringe under the doctrine of equivalents any asserted  
19 claim of United States Patent No. 7,058,822; that Finjan's  
20 claims are barred or limited by the doctrine of patent  
21 exhaustion; that Finjan has not proved, by clear and  
22 convincing evidence, that any infringement by defendants is  
23 willful; that Finjan has not proved, by a preponderance of  
24 the evidence, that it is entitled to any damages; that  
25 Finjan has not proved that this is an exceptional case.

686

## 1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
3 KELLY J. FARNAN, ESQ.  
4 Richards, Layton & Finger  
5 -and-  
6 RONALD J. SCHUTZ, ESQ.,  
7 CHRISTOPHER A. SEIDL, ESQ.,  
8 TREVOR J. FOSTER, ESQ., and  
9 JAKE M. HOLDREITH, ESQ.  
10 Robins, Kaplan, Miller & Ciresi, L.L.P.  
11 (Minneapolis, MN)  
12 Counsel for Defendants  
13  
14  
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688

1 Further, the Defendants move for judgment as a  
2 matter of law in their favor on any and all claims on which  
3 Finjan has the burden of proof and on any defense asserted  
4 by the Defendants.

5 Thank you, Your Honor.

6 THE COURT: I will deny each of your motions,  
7 with the exception of, if you want to talk about  
8 willfulness, I will hear you.

9 MR. SCHUTZ: Your Honor, under the recent  
10 standard set forth in In Re Seagate --

11 THE COURT: I am aware of the holding.

12 MR. SCHUTZ: That case requires a much more  
13 elevated standard of reckless disregard. We don't think  
14 they have proven infringement, let alone that we acted with  
15 reckless disregard under any objection standard, Your Honor.

16 THE COURT: Mr. Andre, what is the evidence that  
17 will support willfulness, a finding of willfulness.

18 MR. ANDRE: Your Honor, what we have presented  
19 in this case thus far is that the defendants in this case  
20 were aware of the patents-in-suit in this case. They read  
21 the patents. We have put forward deposition testimony from  
22 Mr. Stecher, Mr. Barzau and Mr. Alme, in which they stated,  
23 after looking at the patents and doing research, they  
24 developed their product.

25 There was additional evidence that they, when

Gallagher - cross

Gallagher - cross

1 products necessary to proactively protect -- that is  
 2 highlighted, in italics, proactively protect -- their IT  
 3 infrastructure at the enterprise gateway.  
 4 A. Correct.  
 5 Q. That was the focus of your purchase of this company,  
 6 to get the proactive protection, you spent 270, 300 million  
 7 to get that. Isn't that correct?  
 8 A. No, it's not. In the first paragraph that you  
 9 highlighted, you will see two companies, CyberGuard and  
 10 CipherTrust. They are both listed there. The context of --  
 11 recognize this is a note to our shareholders, which is a  
 12 strategic thing going forward, which is tactical.  
 13 The proactive protection that we extensively  
 14 marketed and we had spoken to our customers today is to  
 15 trust its source messaging proactive protection for  
 16 determining anti-spam, and that is available on all of our  
 17 products today.  
 18 Q. The products that Secure Computing and its  
 19 subsidiaries, CyberGuard and WebWasher, what you market,  
 20 they are gateway products. Right?  
 21 A. Yes.  
 22 Q. They set the gateway and protect the client computer  
 23 at the gateway. Correct?  
 24 A. They sit at the edge of the perimeter, which is  
 25 usually considered the gateway. And they protect or they

1 A. No.  
 2 Q. So it's still there?  
 3 A. Yes.  
 4 Q. The same with the CyberGuard TSP?  
 5 A. Yes.  
 6 Q. And, in fact, you mentioned that you still offer for  
 7 sale the CyberGuard TSP product with the WebWasher function  
 8 turned on if the customer really wants it. Right?  
 9 A. With or without the function, and the function is  
 10 available if somebody wanted to order it, correct.  
 11 Q. It is offered for sale if somebody wants to order it?  
 12 A. It is offered for sale if they determine they would  
 13 like to buy it, yes.  
 14 Q. You still advertise even today -- if we can go to the  
 15 DTX-1296, this was your company's product info sheet here.  
 16 If you will turn to the third page of that. When you talk  
 17 about CyberGuard in this paragraph here, it states that the  
 18 CyberGuard TSP, the TSP appliances are designed to protect  
 19 midsized to large enterprises against both known and  
 20 zero-hour attacks using a hybrid architect that combines  
 21 staple packet filtering, seven-layer inspection, and secure  
 22 content policy enforcement.  
 23 Do you see that?  
 24 A. Yes.  
 25 Q. The zero-hour attack, that is nomenclature for

722

Gallagher - cross

1 manage the traffic of the clients behind that device or the  
 2 traffic of the Internet coming to that device.  
 3 Q. There is two distinct different types of protection  
 4 that you offer. One is a firewall. I believe you called  
 5 that the -- there is at least two.  
 6 The network gateway, would that be the firewall  
 7 product?  
 8 A. Correct.  
 9 Q. And then the web gateway, that would be the WebWasher  
 10 product?  
 11 A. Right, web only. There is some Legacy mail work in  
 12 the WebWasher, but we do not proactively sell that.  
 13 Q. You consider those two distinct product lines.  
 14 Correct?  
 15 A. Yes.  
 16 Q. Now, you also mentioned that the WebWasher modules can  
 17 be turned on and off. Correct?  
 18 A. Correct.  
 19 Q. Now, regardless, if the module is turned on or off,  
 20 the module is still in the product. Right?  
 21 A. The module is resident in the binary source code that  
 22 is in the product.  
 23 Q. When someone wants to order WebWasher and they don't  
 24 want any proactive protection, you don't go into the actual  
 25 box and delete source code. Do you?

724

Gallagher - cross

1 proactive protection right?  
 2 A. Proactive protection which could be anti-virus, which  
 3 could be protocol inspection, which could be intrusion  
 4 prevention. So not specific to malware. There is many ways  
 5 to do proactive detection within a network gateway product.  
 6 Q. And the proactive scanner of the WebWasher product,  
 7 that's actually in the anti-virus module as well. Right?  
 8 A. The proactive scanner surrounds the anti-virus module.  
 9 The anti-virus module, there is no stand-alone anti-virus  
 10 module with WebWasher on TSP.  
 11 Q. Even regardless if it's on CyberGuard TSP or just the  
 12 WebWasher product, you testified earlier that only the  
 13 anti-malware had the proactive scanner on it?  
 14 A. Correct.  
 15 Q. Now, that's not quite correct, is it? The anti-virus  
 16 also has the proactive scanner on it. Correct?  
 17 A. No.  
 18 Q. Do you know who Martin Stecher is?  
 19 A. No.  
 20 Q. Martin Stecher is the engineer who works for Secure  
 21 Computing in Germany?  
 22 A. Martin Stecher, I do know him, yes.  
 23 Q. Martin is someone who knows this product line fairly  
 24 well?  
 25 A. Yes.



Gallagher - cross

Gallagher - cross

1 THE COURT: He can't testify.

2 MR. SCHUTZ: I don't want it flashed on the  
3 screen.

4 THE COURT: No.

5 MS. KOBIALKA: This document was produced after  
6 discovery was closed. He we asked for this witness'  
7 deposition, they gave a declaration, if we can just give a  
8 declaration, they said, we didn't want the parties to have  
9 to fly back to Germany.

10 We ended up getting an affidavit from this  
11 particular witness that said this was a big joke.

12 MR. ANDRE: This was a joke on his part. That  
13 was not meant to be serious.

14 THE COURT: Let's see what this witness knows  
15 about it.

16 MR. SCHUTZ: I will be back up here wanting to  
17 dispute the affidavit to establish foundation for that,  
18 because it is completely distorted.

19 THE COURT: I don't know what it is in the  
20 affidavit.

21 MR. HOLDREITH: I have it right here.

22 This is a low-level employee in Germany. The  
23 employees were asked to search their computers for e-mail  
24 mentioning Finjan. They were sitting around in a room doing  
25 the search. None of them had any responsive e-mail and they

1 A. I recognize the name. I could not speak to if that is  
2 a current employee. And I can't put a name to a face. That  
3 name has come up at some time at Secure.

4 MR. ANDRE: Your Honor, may I approach and show  
5 the witness this?

6 THE COURT: Yes, you may.

7 BY MR. ANDRE:

8 Q. Mr. Gallagher, I have placed in front of you an e-mail  
9 from Udo Bretz. Have you seen that e-mail before?

10 A. No.

11 Q. Are you familiar with the subject matter in that  
12 e-mail?

13 A. I understand what reverse-engineering is. I am not  
14 familiar with the context of this e-mail.

15 Q. And at any time did -- are you familiar with the fact  
16 that the people who were in your development team were told  
17 not to mention Finjan in the marketplace or within the  
18 company as well?

19 A. If they were told that, it was by the legal team. My  
20 direction was not to them to limit their discussions on  
21 Finjan.

22 Q. You said you took this Finjan very seriously once the  
23 litigation began.

24 Did you ever obtain the opinion of counsel  
25 regarding whether or not Secure Computing infringes on

734

Gallagher - cross

1 were sort of complaining, on this exercise of searching,  
2 there is nothing there. So he wrote this in order to have a  
3 search result come up and make a joke about it.

4 THE COURT: Would this gentleman be able to talk  
5 about it?

6 MR. HOLDREITH: He has no knowledge of it

7 THE COURT: Then it won't be an issue.

8 MR. SCHUTZ: I would like to lodge a 403  
9 objection as well, for the record.

10 MR. HOLDREITH: And I should say, I think he has  
11 no knowledge.

12 THE COURT: Your 403 objection is what?

13 MR. SCHUTZ: Highly prejudicial.

14 THE COURT: It may be prejudicial. I don't  
15 think it is unfair. If he knows about it, he can talk about  
16 it. You can explain it. You have the ability to have him,  
17 on redirect, explain just what is in that affidavit.

18 MR. SCHUTZ: One step at a time, which you  
19 suggested.

20 MR. ROVNER: Your Honor --

21 THE COURT: Let's see.

22 (End of sidebar conference.)

23 BY MR. ANDRE:

24 Q. Mr. Gallagher, are you familiar with an employee at  
25 your company named Udo Bretz, B-r-e-t-z?

736

Gallagher - redirect

1 Finjan's patents?

2 A. No.

3 THE COURT: Are you done with that e-mail,  
4 Mr. Andre?

5 MR. ANDRE: Your Honor, I would like to move the  
6 e-mail into evidence. But the witness hasn't seen the  
7 e-mail.

8 THE COURT: That request is denied. You can  
9 retrieve the e-mail.

10 MR. ANDRE: Thank you, Your Honor.

11 Your Honor, I have no further questions of this  
12 witness.

13 THE COURT: Any redirect?

14 MR. SCHUTZ: Yes, Your Honor. Briefly.

15 REDIRECT EXAMINATION

16 BY MR. SCHUTZ:

17 Q. Mr. Gallagher, I have once again put up JTX-45, which  
18 is the 2006 annual report. Before we go to a paragraph in  
19 here, I would like to go back to the CyberGuard acquisition.  
20 How many customers did CyberGuard have at the time of the  
21 acquisition?

22 A. Thousands. I couldn't give you an exact number.  
23 Somewhere greater 6,000. Probably six to 8,000 customers.

24 Q. How important was it in terms of valuing the  
25 acquisition for Secure Computing to acquire this company and

805

Wallach - direct

1 Q. I am sorry. Exhibit 12. Have I been saying "Exhibit  
2 11"?

3 A. Just that one time, I think.

4 Q. My mistake. Exhibit 12. In your opinion, Doctor,  
5 does Exhibit 12 show in any way that WebWasher makes a list  
6 of suspicious computer operations?

7 A. It does not.

8 Q. I am now going to show you Exhibit 26 that Dr. Vigna  
9 discussed. This is WebWasher White Paper on proactive  
10 security. Have you considered this document?

11 A. Yes, I have.

12 Q. Dr. Vigna discussed this page, I believe it's 15.  
13 Have you reviewed Page 15 of Exhibit 26?

14 A. Yes, I have.

15 Q. Now, this is where the administrator can make some  
16 changes to WebWasher. Is that right?

17 A. That's correct.

18 Q. And what is the administrator doing when the  
19 administrator uses this part of WebWasher?

20 A. The administrator, you will notice that the categories  
21 of behavior are rows along this table. This is a user  
22 interface that the administrator would use to configure the  
23 security policy.

24 So, for example, the top line here is, Dynamic  
25 creation of program code. And the administrator can either

806

Wallach - direct

1 allow or block that behavior.

2 Q. Now, the administrator here, who is that, for example?  
3 Put that in real terms.

4 A. So, for a typical large company, there will be one or  
5 a handful of people whose job it is to manage the computers  
6 for that company. And everybody else just fires up their  
7 web browser and surfs the web and all the security concerns  
8 are supposed to be taken care of by this one person.

9 Q. So this person, who is the administrator for the  
10 company, can make the decisions about what to block or allow  
11 here?

12 A. Yes.

13 Q. What is your understanding of -- strike that.  
14 This is the security policy. This has nothing  
15 to do with an actual downloadable. Right?

16 A. That's correct. This is the administrator stating a  
17 policy of what is and is not allowable within the company  
18 or, you know, network.

19 Q. Is there anything, in your opinion, in Exhibit 26  
20 which says that WebWasher makes a list of suspicious  
21 computer operations?

22 A. There is not.

23 Q. I am going to show you another document that Dr. Vigna  
24 looked at. This looks familiar. It is a step-by-step  
25 guide. But this is Plaintiff's Exhibit 113. It is another

807

Wallach - direct

1 version.

2 Did you look at this document?

3 A. Yes, I did.

4 Q. And is this document very, very similar to the one we  
5 just looked at?

6 A. Yes, it is.

7 Q. Is there any difference between Exhibit 113 and  
8 Exhibit -- the other step-by-step guide that we just looked  
9 at that leads you to make any different conclusions from the  
10 ones you have expressed?

11 A. There is nothing here that would lead me to a  
12 different conclusion.

13 Q. Have you looked through all the descriptions of  
14 WebWasher that Dr. Vigna pointed out?

15 A. Yes, I have.

16 Q. Have you looked through all the descriptions of  
17 proactive scanning in WebWasher that Dr. Vigna pointed out?

18 A. Yes, I have.

19 Q. Do they all say basically the same thing?

20 A. Yes.

21 Q. Do any of them support the idea that WebWasher makes a  
22 list of suspicious computer operations?

23 A. No.

24 Q. Have you verified that conclusion by comparing in the  
25 source code what WebWasher does to these descriptions?

808

Wallach - direct

1 A. Yes, I have.

2 Q. And is the source code consistent with your opinion?

3 A. The source code is consistent with my opinion.

4 Q. Dr. Wallach, I now want to talk about the other  
5 limitation that you pointed out in the '194 patent.

6 A. Okay.

7 Q. Just to orient us, can you please point out for us  
8 what that limitation is?

9 A. This is the addressed to a client limitation.

10 MR. ANDRE: Your Honor, objection. May we have  
11 a sidebar?

12 (The following took place at sidebar.)

13 MR. ANDRE: I apologize, Your Honor. But they  
14 are ready to elicit testimony -- pursuant to Dr. Wallach's  
15 expert report, he does not have an understanding as to  
16 "addressed to a client" unless he is allowed to use a  
17 definition that he proposed earlier that Your Honor  
18 expressly disavowed.

19 This is his report. It says, I have received  
20 the Court order the day before I submitted the report so I  
21 have not had any ample time to study the implication of the  
22 Court order. To the extent that the Court order is intended  
23 to indicate that the ordinary meaning is not a downloadable  
24 that is sent to the client's computer network address, I am  
25 not sure what the ordinary meaning is. To the extent the

Wallach - direct

Wallach - direct

1 Court has not foreclosed the ordinary meaning may be a  
2 downloadable that is sent to the client's network address, I  
3 have outlined my opinion.

4 So he has given his opinion only to the extent  
5 that this is the definition that could be used.

6 He also confirmed that in his deposition as  
7 well. In his deposition, he stated, the question was, I  
8 believe you stated this before, but the last couple of lines  
9 you say you are not sure what the ordinary meaning of  
10 addressed to a client is.

11 That's correct.

12 The Court's order with this term says the '194  
13 term, "addressed to a client," is construed to have its  
14 plain and ordinary meaning. There is a footnote, you said,  
15 Plain and ordinary meaning Re: United States Philips.

16 You go on to state, The Court further observes  
17 that the defendant's proposed construction would  
18 unjustifiably narrow the term's broad scope which is not  
19 expressly limited or redefined by the specification.

20 In their proposed construction, of "addressed to  
21 a client" was containing the client's computer IP address.  
22 That is the definition he wants to use now. He stated in  
23 the deposition and his expert report he didn't have an  
24 ordinary meaning. Now they are going to elicit testimony  
25 that they do not infringe this element.

1 the term means, for him to say Dr. Vigna is wrong in his  
2 interpretation, I think that is contrary to what he  
3 disclosed in this case.

4 MR. HOLDREITH: He is not going to comment on  
5 Dr. Vigna's interpretation. He is going to say Dr. Vigna  
6 did not point to anything in WebWasher.

7 THE COURT: That is up to the jury to decide  
8 that. That is not up to him. That is a fact that you want  
9 him to opine on. That is in the province of the  
10 fact-finder, whether Dr. Vigna did opine or not is up to you  
11 to argue, it seems to me, not up to him.

12 Maybe I am missing something, Mr. Holdreith.  
13 Maybe you can be a little more specific as to why you think  
14 he should be permitted to comment on that.

15 MR. HOLDREITH: It seems to me this is a fairly  
16 complex technology --

17 THE COURT: No question.

18 MR. HOLDREITH: -- where it is difficult for the  
19 layperson to understand whether Vigna actually pointed to  
20 something in WebWasher which is a downloadable addressed to  
21 a client.

22 It seems to me that a technical explanation, I  
23 will keep it very short --

24 THE COURT: Whether it is short or long is not  
25 the issue. The issue is whether it is an appropriate

810

Wallach - direct

Wallach - direct

1 MR. HOLDREITH: Your Honor, the plaintiff has  
2 the burden of proof to establish that the WebWasher has the  
3 limitation "addressed to a client." I intend to elicit from  
4 Dr. Wallach testimony consistent with his report that  
5 Dr. Vigna never pointed out anything in WebWasher which  
6 receives a downloadable addressed to a client to have him  
7 comment on Dr. Vigna's explanation that it's like giving a  
8 note to someone and saying, Hey, send this to Jim, and that  
9 he didn't find anything in WebWasher that does that.

10 I would like to have him testify, and it would  
11 be by offer of proof if Your Honor finds it's inconsistent  
12 with the order that WebWasher also gave the --

13 THE COURT: It's inconsistent with the order.

14 MR. HOLDREITH: Can we make an offer of proof on  
15 that in written form, if that is suitable to the Court?

16 THE COURT: Go ahead.

17 MR. HOLDREITH: We will submit that.

18 THE COURT: I am going to reject it, but you can  
19 go ahead and preserve your issue.

20 MR. HOLDREITH: We just need to put it in the  
21 record. We will file something at the end.

22 MR. ANDRE: Because he doesn't know what this  
23 meaning "addressed to a client" is, the ordinary meaning,  
24 both in his report and in his deposition, I don't think he  
25 should comment on this term at all. If he doesn't know what

812

1 subject for his comment and whether it unduly and unfairly  
2 invades the province of the jury. I am not sure whether it  
3 does.

4 Do you want to weigh in?

5 MR. SCHUTZ: I will just briefly, Your Honor. I  
6 think what he is really going to testify about is that  
7 Dr. Vigna testified in his opinion that using the example  
8 of, Hey, Jim, that WebWasher, in fact, sends a downloadable  
9 addressed to a client and that's his opinion, and this  
10 witness can say, I disagree with his opinion because it  
11 doesn't work that way.

12 On the other, this "addressed to a client"  
13 thing, certainly, to the extent that that is an issue, it is  
14 a potential 112 issue on indefiniteness, if the claim is  
15 construed in a way that is indefinite, then the patent is  
16 also invalid and we have a 112 defense in this case.

17 MR. ANDRE: That is a different argument.

18 THE COURT: That is not the reason we are at  
19 sidebar.

20 MR. SCHUTZ: I don't think so. I don't want  
21 that to get lost in the mix here.

22 MR. ANDRE: Your Honor, all I am saying is this  
23 witness has repeatedly said, I don't have an ordinary  
24 meaning for this term. I don't care, if he wants to satisfy  
25 any of these terms he has an opinion on, that is fine, but

Wallach - direct

1 he says, I am not sure what the ordinary meaning is. He  
 2 confirmed it in deposition.  
 3 They are going to ask him, Is Dr. Vigna's  
 4 ordinary definition wrong? They are going to say, Yes, it  
 5 is. This passing a note, that was an analogy that he gave.  
 6 MR. SCHUTZ: No.  
 7 MR. HOLDREITH: I am going to ask him, Can  
 8 WebWasher do that, in the configuration and network, can a  
 9 server pass a note to WebWasher and say, Hey, give this to  
 10 Jim?  
 11 MR. SCHUTZ: Using Dr. Vigna's construction of  
 12 the term.  
 13 MR. ANDRE: That is not this witness'  
 14 construction of the term. This witness has no  
 15 interpretation of this term.  
 16 THE COURT: Wait a second. He is an admitted  
 17 expert.  
 18 MR. ANDRE: He is.  
 19 THE COURT: In the field. One of skill in the  
 20 art. He is being asked to comment -- I understand your  
 21 point. I have already indicated I will not permit the  
 22 witness to be queried in that regard. But I am going to  
 23 permit Secure to make an offer of proof, having already  
 24 stated I am going to reject the offer nonetheless.  
 25 But why wouldn't it be fair comment from this

814

Wallach - direct

1 witness, who is an expert, to express a view as to  
 2 Dr. Vigna's example of how this actually functions, what it  
 3 does or doesn't do? He heard the testimony.  
 4 MR. ANDRE: If it is related to the "addressed  
 5 to a client" issue, because this witness has said  
 6 repeatedly, I don't know what that means.  
 7 THE COURT: He is not being asked to give his  
 8 understanding of what plain and ordinary meaning is to one  
 9 of skill in the art. That is not the question that has been  
 10 posed.  
 11 MR. ANDRE: They are presenting this testimony  
 12 to actually try to rebut Dr. Vigna's testimony as to proof  
 13 he put forward as to "addressed to a client."  
 14 THE COURT: He is saying it doesn't work that  
 15 way. He is saying the system doesn't function that way and  
 16 can't function that way.  
 17 MR. ANDRE: Your Honor, it is something, if he  
 18 expresses an opinion that WebWasher does not infringe this  
 19 claim element "addressed to a client," which is what he is  
 20 doing, he is doing it without knowing the definition of  
 21 "addressed to a client."  
 22 MR. SCHUTZ: If I may weigh in? What he is  
 23 saying is that using Dr. Vigna's definition as set forth  
 24 through his example, Vigna says it, in fact, is addressed to  
 25 a client that way and he is going to say, Hey Jim, it

Wallach - direct

1 doesn't get there.  
 2 MR. HOLDREITH: He is going to talk about how  
 3 WebWasher works.  
 4 MR. SCHUTZ: Application protocol layer  
 5 addresses, none of that stuff, he is not going there. If he  
 6 goes there, we will stop.  
 7 MR. ANDRE: I don't think this witness should be  
 8 testifying about this claim element at all.  
 9 THE COURT: I disagree with that.  
 10 MR. HOLDREITH: So I know where I can go, I am  
 11 going to tell him --  
 12 THE COURT: The question should be circumscribed  
 13 by the discussion we just had. I think Mr. Schutz has just  
 14 outlined the permissible, what I believe are the permissible  
 15 parameters of that question.  
 16 I take Mr. Andre's point on the issue. You have  
 17 indicated that is not going to be the direction in which you  
 18 take this witness. If you do, you can stand up and object.  
 19 You understand the limitations of my ruling.  
 20 MR. ANDRE: I think so, Your Honor. Just to be  
 21 clear, if this witness then goes on to say, I do not believe  
 22 WebWasher infringes because it does not take a downloadable  
 23 addressed to a client --  
 24 THE COURT: He can't say that. He has not  
 25 expressed a view. I don't think Mr. Holdreith intends to

816

Wallach - direct

1 ask that question.  
 2 MR. HOLDREITH: I will not ask him.  
 3 THE COURT: He can comment, I think, fairly, on  
 4 the example adduced from your expert that he listened to,  
 5 and he has examined the code, he is an expert in the field.  
 6 This is a classic case of dueling experts.  
 7 MR. HOLDREITH: One little bit of difficulty.  
 8 Sorry to belabor this, Your Honor. He is a technical guy.  
 9 When he explains this, he might start saying --  
 10 MR. SCHUTZ: Cut him off.  
 11 MR. HOLDREITH: There is that network address  
 12 behind there.  
 13 THE COURT: You have to be careful in  
 14 questioning him. I will listen carefully. If we hear those  
 15 magic words, I will jump in.  
 16 MR. HOLDREITH: I will do my best.  
 17 (End of sidebar conference.)  
 18 BY MR. HOLDREITH:  
 19 Q. Okay. Dr. Wallach, the limitation we are talking  
 20 about is "addressed to a client."  
 21 A. Yes.  
 22 Q. That is on the claim board here as well?  
 23 A. Yes.  
 24 Q. Were you present in the courtroom when Dr. Vigna gave  
 25 an example of how he thinks something can be addressed to a



Wallach - direct

Wallach - direct

1 client that is similar to passing a note in school?

2 A. Yes.

3 Q. Were you present when Dr. Vigna said, It's like when I

4 give the note to somebody else and I say, Here, give this to

5 Jim?

6 A. Right.

7 Q. All right. I want to ask you at a very high level of

8 generality, I don't want to talk about network protocols or

9 anything like that. But using that kind of analogy, if you

10 have a system where there is a client communicating to the

11 Internet through WebWasher, and WebWasher makes a request

12 for some content, let's use an example of, say, it's

13 requesting content from Google, it is a Google search?

14 A. Okay.

15 Q. Can the Google server, when it sends the response

16 back, can it say to WebWasher, Here, give this to Jim?

17 A. No, it does not.

18 Q. And at a high level of generality, now, without going

19 into the protocols, why is it that the web server that's

20 delivering that Google back to WebWasher, why can't it say,

21 Give this to Jim?

22 A. The reason is that it never has any idea who Jim is or

23 even if there is a Jim. Instead, it receives the request

24 from the WebWasher appliance.

25 Q. So when WebWasher talks to Google, does WebWasher say,

1 scanning infringes any claim of the '194 patent?

2 A. My opinion is that WebWasher does not infringe any

3 claim.

4 Q. I want to move on now and a talk about the validity of

5 the '194 patent.

6 A. Okay.

7 Q. Here is how we are going to do this, Dr. Wallach, just

8 to orient you. We have got three patents that Finjan has

9 asserted, as you know, '194, '780, '822.

10 A. Right.

11 Q. For each patent, I am going to ask you first about

12 infringement of that patent and then about validity. So

13 when we finish this conversation, we are going to come back

14 to the '780 patent, and we will talk about infringement

15 first and then validity. Do you understand that?

16 A. Yes, I do.

17 Q. I am now asking you about validity of this '194

18 patent.

19 A. Okay.

20 Q. Can you explain your understanding that you used in

21 evaluating the validity of this patent? By that, I mean,

22 what does it mean for a patent to be valid or invalid?

23 A. When a patent is invalid, you say it's invalid over

24 the prior art, or that the prior art anticipates the patent,

25 basically, if somebody else had the idea first. And you

818

Wallach - direct

Wallach - direct

820

1 Hey, I am requesting this for Jim?

2 A. It does not.

3 Q. And why would you set it up so that the Google server

4 doesn't know who Jim is?

5 A. There are many reasons. A company might choose not to

6 divulge the contents -- how many employees it has, how many

7 computers it has. It's a privacy issue.

8 Q. So, can WebWasher be configured so that it ever tells

9 the web server out there, Google or whoever, who is behind

10 WebWasher?

11 A. I am not sure. But it's certainly not for the full

12 configuration.

13 Q. Are there other firewalls or gateways where Google

14 does know who is behind the firewall and does know that it's

15 Jim back there?

16 A. I can imagine that it would be possible to build such

17 a firewall.

18 Q. In that case, could the Google server, when it makes

19 its response, could it say to the firewall or the gateway,

20 Here, here is a response, give this to Jim?

21 A. It is feasible to build it in such a way.

22 Q. Does that ever happen with WebWasher?

23 A. No.

24 Q. We have talked about infringement of the '194 patent.

25 Do you have an opinion about whether WebWasher's proactive

1 establish that by looking at older research papers, older

2 patents, older products, anything that was available to the

3 public prior to the filing date of the patent.

4 Q. How do you go about trying to figure out if somebody

5 else had that idea first?

6 A. Well, once you establish that the documents that you

7 are interested in predate the filing date of the patent,

8 effectively, you evaluate infringement again. If the older

9 system infringes the patent, so it has all the elements that

10 the patent requires, well, that means the older system

11 anticipates the patent and the -- at least that claim of the

12 patent is not valid.

13 Q. And in validity, are you comparing the claims of the

14 patent to something that came before?

15 A. That's correct.

16 Q. So in infringement, if everything is there that's in

17 the patent claim you infringe, but if it turns out the thing

18 that would infringe came first --

19 A. Then the patent is not valid.

20 Q. Now, when you did your invalidity analysis, did you

21 consider some of the things that were written prior to the

22 filing date of the '194 patent?

23 A. Yes, I did.

24 Q. Just so we have it in mind, the filing date of the

25 '194 patent is what?

Wallach - direct

- 1 message?
- 2 A. If we are talking about a packet filtering firewall,
- 3 then people have invented extensions to these firewalls that
- 4 let them remember something about the packets that have come
- 5 before. And that lets them capture some of this more
- 6 sophisticated behavior, without necessarily needing to
- 7 reassemble the entire e-mail message or the entire web page.
- 8 Q. How about an application layer firewall, what does it
- 9 do when a message is broken up across a number of packets?
- 10 A. It will receive all the packets, put them all
- 11 together, then apply some processing. And then, if it's
- 12 okay with it, it will ship it on.
- 13 Q. Now, is a firewall, is it a kind of computer or is it
- 14 something else?
- 15 A. Firewalls are typically either a general-purpose
- 16 computer, such as the device sitting over here, or a
- 17 firewall might be a network router, which is a more
- 18 specialized computing device that's meant to move packets
- 19 around quickly.
- 20 Q. You just said, The device sitting over here. What
- 21 were you pointing to?
- 22 A. I was pointing to the WebWasher appliance, the "pizza
- 23 box," as Dr. Vigna put it.
- 24 Q. Now, is gateway also, can that be a kind of computer?
- 25 A. Yes.

826

Wallach - direct

- 1 Q. And can gateways and firewalls run programs?
- 2 A. Yes, they can.
- 3 Q. Can they run programs that are made for detecting
- 4 viruses?
- 5 A. Yes, they can.
- 6 Q. All right. Now I would like to walk through some of
- 7 the publications and the patents that you looked at so that
- 8 you can explain what they are.
- 9 A. Okay.
- 10 Q. I am now showing you DTX-1263. What is this?
- 11 A. Just a second while I get it up here.
- 12 This is a research paper published by Ramond Lo
- 13 and several other co-authors from the University of
- 14 California at Davis.
- 15 Q. Is Mr. Lo here?
- 16 A. Yes.
- 17 Q. When was this published?
- 18 A. This paper was published at a research conference in
- 19 1991.
- 20 Q. And we are going to look at another paper that Mr. Lo
- 21 published. Right?
- 22 A. Yes, we will.
- 23 Q. How are we going to keep track of which is which?
- 24 A. This paper we will be referring to as Lo '91.
- 25 Q. I have just enlarged a copyright notice. It says,

Wallach - direct

- 1 Copyright 1991 and IEEE.
- 2 What is IEEE?
- 3 A. The Institute for Electronical and Electrical
- 4 Engineers, something like that. It is a professional
- 5 society of electrical engineers and computer scientists.
- 6 Q. Are those people who deal with issues of network
- 7 security, among other things?
- 8 A. Yes.
- 9 Q. This was published to them?
- 10 A. Yes.
- 11 Q. What is this Lo 1991 article about? I will just show
- 12 you a part of it. What was Mr. Lo writing about in 1991?
- 13 A. Lo and his co-authors were concerned with building
- 14 tools to help identify malicious code that perhaps they had
- 15 never seen before. And they considered two broad classes of
- 16 techniques. They considered techniques that could look at,
- 17 let's just call it a downloadable. They could look at a
- 18 downloadable completely by itself, read it from top to
- 19 bottom and looking for behaviors that they considered
- 20 inappropriate. The term they use for that is "static
- 21 analysis." And they also consider techniques that could
- 22 examine a program while it's running in order to detect
- 23 malicious behavior. That broad class of techniques they
- 24 refer to as dynamic analysis.
- 25 Q. Let me stop you there. Can you explain, just in

828

Wallach - direct

- 1 simple terms, what the main difference is between static
- 2 analysis and dynamic analysis?
- 3 A. Yes. Static analysis, you read a program like you
- 4 read a book. Dynamic analysis, you run the program and
- 5 monitor its behavior as it's running.
- 6 Q. In static analysis, are you looking at the lines of
- 7 code and trying to decide what they are going to do?
- 8 A. Yes, they are.
- 9 Q. And in dynamic analysis, are you running the program
- 10 and watching it?
- 11 A. That's correct.
- 12 Q. Let me ask you about some more of this paper. Mr. Lo
- 13 talks about a testbed here. What is a testbed?
- 14 A. When you are doing research, you need to build
- 15 infrastructure to help you do your research. If your
- 16 research is high-energy physics, you are building a particle
- 17 accelerator. And you build this expensive apparatus and you
- 18 use it to test your theories about particle physics.
- 19 In the context of computer security, you build
- 20 the software infrastructure that helps you run experiments.
- 21 What we do is an experimental science just like the particle
- 22 physicists. The only difference is we don't need great big
- 23 expensive buildings.
- 24 Q. If you make a testbed in computer science, are you
- 25 actually testing your program for detecting malicious code?

Wallach - direct

Wallach - direct

1 Ji '600 in 1995 and the Chen patent?

2 A. Yes.

3 Q. And I didn't blow it up very well, but are they

4 related in any other way?

5 A. Eva Chen worked for Trend Micro and these patents are

6 both assigned to Trend Micro.

7 Q. What is happening on is Eva Chen is working for Trend

8 Micro and several patents come out of that work?

9 A. That's correct.

10 Q. Dr. Wallach, what is described in the Chen patent?

11 A. So the Chen patent describes a macro virus detection

12 and removal tool.

13 Q. What is a macro?

14 A. Macros are code that ride inside documents like that

15 Microsoft Word document.

16 Q. Is a macro a kind of downloadable?

17 A. Yes.

18 Q. Or can it be at least if it's downloaded?

19 A. Yes. If you download a Microsoft Word document from

20 the Internet, that would be a downloadable.

21 Q. Can you give us an example of how a macro could be a

22 downloadable with some malicious property?

23 A. Starting in 1995, Microsoft added this macro facility

24 to Microsoft Word, and immediately people started

25 engineering viruses that would spread by virtue of Word

1 for combinations of instructions that could be ultimately

2 used for some malicious intent.

3 Q. Let's look at the text inside the Chen patent. This

4 is now the background of the invention. At Column 1, there

5 is a description, The field of the invention, starting on

6 about Line 5. What does this tell you?

7 A. So it says that this particular invention is all about

8 detecting and removing viruses.

9 Q. And is there anything here that tells you whether this

10 is a concern in a network environment?

11 A. In fact, the area that you are now highlighting points

12 to the use of computers in networks and how networks can be

13 used to facilitate the spread of viruses.

14 Q. Dr. Wallach, is a macro something that can just

15 automatically execute code by itself?

16 A. A macro only operates when it's inside the

17 application, like Microsoft Word.

18 Q. Is there an application that can just call the macro

19 without the user doing anything?

20 A. That was an issue early on in Microsoft Word, that

21 these were what were called "auto execute macros."

22 Q. Does Chen disclose anything about whether these auto

23 execute macros existed?

24 A. The region you just highlighted says, Macros can be

25 triggered by the application program, such as by pressing a

862

Wallach - direct

1 documents rather than programs moving around. The very

2 first one was called the concept virus. That was its name

3 because it was a proof of concept that, in fact, you could

4 design a virus that could spread inside Word documents

5 rather than inside programs.

6 Q. Do macros include operations, computer operations?

7 A. Yes, they do.

8 Q. Could you tell us what is being described here in the

9 text that I have highlighted in the abstract of the Chen

10 patent?

11 A. Right. So the Chen patent is looking for previously

12 unknown macro viruses. We have seen this distinction before

13 between things you already know about and things you don't

14 know about. So the Chen patent is looking for things you

15 don't already know about.

16 Q. And how does it do that?

17 A. It does that in the similar fashion to what we have

18 talked about earlier. It looks for particular patterns that

19 are likely to indicate malicious behavior, patterns in the

20 operations.

21 Q. It says here that, it has a module, and it determines

22 whether the decoded macro includes a combination of suspect

23 instructions which correspond to instruction identifiers.

24 What does that mean?

25 A. It's more or less what I just said. You are looking

864

Wallach - direct

1 key.

2 Q. I am showing you now some text in Column 2, at about

3 line 50. This is a discussion of the macro virus

4 information module. What is this text teaching us?

5 A. It says that it uses information to detect both known

6 and unknown viruses.

7 Q. So was Chen a method for detecting unknown malicious

8 code?

9 A. Yes.

10 Q. This is not a signature scanning technique?

11 A. They are saying it's both. They can both detect

12 signatures for viruses they know about, and they can look

13 for patterns that might be indicative of viruses they don't

14 know about.

15 Q. Now, was Chen a system or a piece of software, a virus

16 detector that was installed on a gateway?

17 A. The patent is, I believe, silent about that issue.

18 Q. Does Chen tell you anything about where you could

19 deploy the virus detector of Chen in this text that I have

20 highlighted in Column 4 at about Line 60?

21 A. It says that a variety -- there is many different ways

22 you could configure it.

23 Q. When it says, A variety of alternative computer system

24 configurations are available and the present invention is

25 independent of their use, does that tell you anything about

Wallach - direct

Wallach - direct

1 art. Do you understand that?

2 A. Yes.

3 Q. Have you had prepared a table with the elements of the  
4 claims so that we can keep track of this analysis?

5 A. Yes, I have it in front of me.

6 Q. I've provided a copy to counsel. As a demonstrative  
7 exhibit, this will be similar to what Dr. Vigna walked  
8 through.

9 Can I have the Elmo, please.

10 Now, in order to try to make this a little less  
11 tedious, because we do have to, the law will require us to  
12 hit every claim, but if you put side by side on this table  
13 similar elements of similar claims.

14 A. Right.

15 Q. The phrasing is not identical, but are these elements  
16 that you have put side by side very similar to each other?

17 A. Indeed, they are.

18 Q. So I am going to ask you now about did Shaio '338  
19 patent. That was one of the references you explained?

20 A. Yes.

21 Q. I got a little out of order while we jumped around, so  
22 bear with me while I pull that reference out.

23 This is Exhibit DTX-1021. We may have to jump  
24 back and forth a little bit. I am first going to ask you --  
25 could I have the presentation system, please?

1 A. So this refers to realtime testing of executable codes

2 such as applets. So executable codes such as a applets.

3 That is an example of a downloadable.

4 Q. And how do you know that the downloadable is received  
5 by Shaio?

6 A. If you don't receive it, you can't do anything else to  
7 it. You have to receive it.

8 Q. Now, when you considered whether in Shaio the  
9 downloadable was addressed to the client, do you understand  
10 that you have to be consistent with Finjan's infringement  
11 position? You have to assume that the patent is as Finjan  
12 has asserted it?

13 A. Okay.

14 Q. And did you apply Dr. Vigna's definition of addressed  
15 to a client?

16 A. Yes, I did.

17 Q. Using Dr. Vigna's definition of addressed to a client,  
18 does the Shaio patent have a downloadable addressed to a  
19 client?

20 A. Yes, it does.

21 Q. Can we check off this first claim element?

22 A. Yes.

23 Q. Is the element found in the same places for Claim 32?  
24 I will point out to you, this has the addition of a security  
25 policy.

910

Wallach - direct

1 Just remind us briefly, what is the Shaio  
2 patent.

3 A. So the Shaio patent describes a so-called  
4 intelligent firewall that, among other things, includes a  
5 Java bytecode verifier.

6 Q. And did you find each and every limitation of Claim 1  
7 of the '194 patent in the Shaio patent?

8 A. Yes.

9 Q. Let's walk through that, if I could ask you about the  
10 first element, if I could have the Elmo please.

11 Is Shaio a computer-based method and does Shaio  
12 also disclose a system?

13 A. Yes.

14 Q. How did you determine that?

15 A. By reading the patent.

16 Q. Does Shaio receive an incoming downloadable addressed  
17 to a client by a server that serves as a gateway to the  
18 client?

19 A. Yes.

20 Q. How do you know that?

21 A. Because it describes a firewall that receives content.

22 Q. And directing your attention now, if I could have the  
23 presentation system, to Column 2, at Lines about 24 to 30,  
24 does this have anything to do with that limitation of  
25 receiving an incoming downloadable?

912

Wallach - direct

1 A. Right.

2 Q. Does Shaio disclose a security policy?

3 A. Yes.

4 Q. How does it do that?

5 A. It, by virtue of having the Java bytecode verifier,  
6 there is implicitly a policy that if the bytecode verifier  
7 rejects the content, then that policy might be enough to  
8 transmit it.

9 Q. The security policy is if the applet is broken --

10 A. Then don't send it long.

11 Q. Is the element in Claim 65 essentially the  
12 substantially similar element?

13 A. Yes, it is.

14 Q. Found in the same places?

15 A. Yes.

16 Q. Can I check that off?

17 A. Yes, you may.

18 Q. The next element of the patent, Claim 1, is comparing  
19 by the server downloadable security profile data pertaining  
20 to the downloadable, the downloadable security profile data  
21 includes a list of suspicious computer operations that may  
22 be attempted by the downloadable.

23 That is the list of suspicious computer  
24 operations. Right?

25 A. Yes.



Wallach - direct

Wallach - direct

1 tools of Hershey onto the firewall of Shaio for a person  
 2 working in the industry in 1996?  
 3 A. This is all very straightforward.  
 4 Q. Do you have an opinion about whether the '194 patent  
 5 is anticipated by the combination of Shaio and Hershey?  
 6 A. Yes.

MR. ANDRE: Objection.

THE WITNESS: Obvious.

MR. ANDRE: Withdrawn.

BY MR. HOLDREITH:

11 Q. Thank you for that correction. It is getting late in  
 12 the day.

13 Do you have an opinion about whether Claim 27 of  
 14 the '194 patent is obvious in light of Shaio combined with  
 15 Hershey?

A. Yes, it is obvious.

17 Q. Claim 28 of the '194 patent adds to Claim 27 that you  
 18 can override the security policy administratively to block  
 19 the downloadable. What does that mean in general terms?

20 A. The idea is, even though -- we have actually discussed  
 21 this for some of the earlier claims. If you have an  
 22 administrative rule that says, you know, throw caution to  
 23 the wind, if it came from Microsoft.com, I am willing to  
 24 trust it no matter what, then that would be an  
 25 administrative override.

938

Wallach - direct

1 Q. Did you find an administrative override in Shaio?  
 2 A. I did not.  
 3 Q. Where did you find an administrative override?  
 4 A. So in this case, and this applies to actually the next  
 5 three claims, actually, at least 28 and 29 for sure, I  
 6 looked to the Firewall Toolkit.  
 7 Q. Claim 28 of the '194 patent says you could  
 8 administratively allow -- sorry, block, and Claim 29 says  
 9 you can administratively allow. Is that right?  
 10 A. One of them says allow. The other one says block.  
 11 Q. Did you find allowing and blocking in the Firewall  
 12 Toolkit?  
 13 A. Yes, the Firewall Toolkit has Whitelisting and  
 14 Blacklisting support.  
 15 Q. How do you know that?  
 16 A. I read the source code.  
 17 Q. Did you find in the source code administrative  
 18 override in the Firewall Toolkit?  
 19 A. Yes. When you install it you can specify a policy for  
 20 things to be allowed and denied.  
 21 Q. Would there be any difficulty for someone working in  
 22 the computer industry in 1996 on security products to  
 23 combine the administrative override feature of the Firewall  
 24 Toolkit with Shaio?  
 25 A. That would be very straightforward.

1 Q. Do you have an opinion as to whether Claims 28 and 29  
 2 of the '194 patent are obvious in light of Shaio combined  
 3 with the Firewall Toolkit?  
 4 A. It is my opinion that they are obvious.  
 5 Q. All right. I think this is the last claim on this  
 6 patent for this reference.

7 Claim 30 includes the step of informing a user  
 8 upon detection of a security policy violation. What does  
 9 that mean?

10 A. The concept is that a user might want to know that we  
 11 have denied them access to something. The user says, please  
 12 go to something something dotcom, and if the answer is no,  
 13 then they ought to understand why the answer was no. There  
 14 should be some feedback to the user.

15 Q. Did you find in Shaio disclosure of informing the user  
 16 if there is detection of a security policy violation?

A. Shaio did not discuss that.

Q. Where did you find that?

A. So, again, I looked to the Firewall Toolkit.

20 Q. Was it common in 1995 in your opinion for computers to  
 21 inform users if they detected a problem?

A. All the time.

Q. Anything unusual about doing that?

A. That's straightforward stuff.

Q. Was there any problem, would there have been any

940

Wallach - direct

1 problem combining that feature of the Firewall Toolkit with  
 2 Shaio for a person working in computer security in 1996?  
 3 A. That would be very straightforward.  
 4 Q. Do you have an opinion as to whether Claim 30 of the  
 5 '194 patent is obvious in light of Shaio combined with the  
 6 Firewall Toolkit?

A. Yes. My opinion is Claim 30 is obvious.

8 Q. Now, for Claims 28 and 29, could you also combine  
 9 what's found in Hershey with the Firewall Toolkit and Shaio?

10 MR. ANDRE: Objection. This wasn't disclosed in  
 11 his expert report.

THE COURT: Disclosed in the report?

13 MR. HOLDREITH: I believe it was. I will have  
 14 to double-check it, Your Honor. Perhaps I can do that  
 15 overnight.

THE COURT: Why don't we break here.

17 Ladies and gentlemen, we have come to the end of  
 18 our day. Please remember my earlier instructions to you.  
 19 Travel safely. We will see you back here at 9:00.

(Jury leaves courtroom at 4:30 p.m.)

THE COURT: I have got to go.

(Court recessed at 4:30 p.m.)

- - -

Reporter: Kevin Maurer

25

941

1 IN THE UNITED STATES DISTRICT COURT  
2 IN AND FOR THE DISTRICT OF DELAWARE  
3  
4 FINJAN SOFTWARE LTD., : Civil Action  
5 : No. 06-369 (GMS)  
6 Plaintiff, :  
7 v. :  
8 SECURE COMPUTING CORPORATION, :  
9 CYBERGUARD CORPORATION, :  
10 MEEWASHER AG and DOES 1 :  
11 THROUGH 100, :  
12 Defendants. :  
13  
14

11 Wilmington, Delaware  
12 Friday, March 7, 2008  
13 9:00 a.m.  
14 Day Five of Trial

15 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
16 and a Jury

## APPEARANCES:

17 PHILIP A. ROVNER, ESQ.  
18 Potter Anderson & Corroon LLP  
19 -and-  
20 PAUL J. ANDRE, ESQ.,  
21 LISA KOBIALEK, ESQ.,  
22 JAMES HANNAH, ESQ.,  
23 MEGHAN WARTON, ESQ.,  
24 KRIS KASTENS, ESQ., and  
25 HANNAH LEE, ESQ.  
King & Spalding  
(Silicon Valley, California)  
Counsel for Plaintiff

1 THE COURT: Good morning.  
2 (Counsel respond "Good morning.")  
3 THE COURT: Mr. Andre.  
4 MR. ANDRE: Your Honor, we have an objection  
5 imposed yesterday at the end of the day regarding a  
6 combination of references they were going to use to try to  
7 show invalidity in one of the patent claims.  
8 Our objection was that reference was not  
9 disclosed for that claim. We have not been able to work out  
10 the objection. It is still out there for this morning.  
11 MR. HOLDREITH: Your Honor, I will show you  
12 briefly the disclosure in Dr. Wallach's report.  
13 I understand that Mr. Andre's objection is we  
14 would like to show that for Claim 28 and 29, which are  
15 dependent on 27, what the combination is.  
16 In 27, Dr. Wallach disclosed Hershey and Shaio  
17 as a combination. 28 depends on 27 so it includes  
18 everything. Here he added firewall tool kit as part of the  
19 combination.  
20 We think that is sufficient by itself for  
21 Dr. Wallach to now explain to the jury that you combine  
22 Hershey, Shaio and firewall tool kit to render Claim 28  
23 obvious.  
24 If that weren't sufficient, he did say here it  
25 would be obvious for any other firewall to adopt the same

942

## 1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
3 KELLY J. FARNAN, ESQ.  
4 Richards, Layton & Finger  
5 -and-  
6 RONALD J. SCHUTZ, ESQ.,  
7 CHRISTOPHER A. SEIDL, ESQ.,  
8 TREVOR J. FOSTER, ESQ., and  
9 JAKE M. HOLDREITH, ESQ.  
10 Robins, Kaplan, Miller & Ciresi, L.L.P.  
11 (Minneapolis, MN)  
12  
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Counsel for Defendants

944

1 features. He has already testified Hershey and Shaio are  
2 other firewalls. All we want to do is have him explain that  
3 for 28 and 29, combining firewall tool kit with Hershey and  
4 Shaio, two other firewalls.

5 MR. ANDRE: Our problem with that, Your Honor,  
6 is that, first of all, with any other firewalls, it would be  
7 unfair disclosure because that could be 20,000 different  
8 firewalls. I don't think that covers it.

9 As Your Honor knows, with respect to validity,  
10 each dependent claim has to stand on its own merits. This  
11 is a table which they are trying to show Shaio discloses  
12 everything. They added references in to kind of fill in the  
13 holes for Shaio.

14 For Claims 28 and 29, they only mention the  
15 firewall tool kit, FWTK. They never mentioned Hershey in  
16 those two claims. To try to fill in the holes, to try to  
17 back-door it into Claim 27, I think is improper disclosure.

18 THE COURT: I will sustain the objection.

19 MR. ANDRE: That is all we have, Your Honor.

20 THE COURT: Nothing from the other side?

21 MR. HOLDREITH: Nothing.

22 THE COURT: Be back at 9:00.

23 (Recess taken.)

24 THE COURT: All right, Ms. Walker.

25 MR. HOLDREITH: Your Honor, may Dr. Wallach come

Wallach - direct

- 1 A. Yes.
- 2 Q. I see a reference here in Chen as well to a Hershey
- 3 patent. Do you see that?
- 4 A. Yes.
- 5 Q. Is that the Hershey patent we just discussed?
- 6 A. It's the same.
- 7 Q. What does it mean here that it's in a list of
- 8 references cited in Chen?
- 9 A. That means that Chen is acknowledging that Hershey is
- 10 closely related or is relevant -- you know, to understand
- 11 Chen, it would help to understand Hershey.
- 12 Q. Are Ji and Chen and Hershey all in the same field of
- 13 network security?
- 14 A. Yes, they are.
- 15 Q. Are they all aimed at solving related problems?
- 16 A. Yes, they are.
- 17 Q. Were they known solutions as of 1996 to trying to
- 18 detect unknown viruses and known viruses at a gateway?
- 19 A. Yes, they were.
- 20 Q. Was it within the technical grasp of people working in
- 21 your field to combine those three ideas and put them
- 22 together on a gateway?
- 23 A. Yes, it was.
- 24 Q. Now, do you need to combine Ji and Chen and Hershey,
- 25 all three of them, to make the '194 patent claims obvious?

958

Wallach - direct

- 1 A. I believe you only need Ji and Chen.
- 2 Q. In your claim chart, if I could have the Elmo back,
- 3 please, I see that the column headings say you could combine
- 4 Ji and Lo '91 or Ji and Chen. Is that right?
- 5 A. Yes.
- 6 Q. What does that mean?
- 7 A. The Ji reference talks about a firewall that can do
- 8 anti-virus scanning using a virus scanner that knows about
- 9 preexisting viruses. Both Lo '94 and Chen talk about
- 10 scanning for previously unknown viruses.
- 11 If we combine Ji with either Lo '94 or Chen, we
- 12 then have the firewall that scans for viruses from Ji with
- 13 the previously unknown virus scanning properties in either
- 14 Lo '94 or Chen.
- 15 Q. You could use either Lo or Chen, you don't need both?
- 16 A. That's correct.
- 17 Q. I would like you to briefly remind us of what is in
- 18 the Chen patent. I am showing you now Chen. This is the
- 19 abstract of Chen on the front page.
- 20 Can you remind us -- I will try to highlight
- 21 this. Can you remind us of what the abstract discloses
- 22 here?
- 23 A. Chen is focused on scanning macros for viruses, and
- 24 for viruses that are perhaps previously unknown.
- 25 Q. I would like to show you Column 2 of Chen. Can you

Wallach - direct

- 1 remind us, is a macro a type of downloadable?
- 2 A. Yes.
- 3 Q. Can it be?
- 4 A. Yes, it can.
- 5 Q. Column 2, at about Line, let's say, 53, does that tell
- 6 us what kind of viruses Chen is capable of detecting?
- 7 A. Yes. So Chen discloses the ability to detect both
- 8 known and unknown viruses.
- 9 Q. Finally, Column 7 of Chen, which I am now showing you,
- 10 starting at about Line 45, does Chen disclose specific
- 11 techniques for scanning for known and unknown viruses?
- 12 A. Yes, it does.
- 13 Q. All right. And if I specifically highlight, about
- 14 Line 47, what does Chen explain about scanning for known
- 15 viruses?
- 16 A. Chen discloses the use of signature scanning, where
- 17 you have a specific pattern that you know matches a specific
- 18 virus.
- 19 Q. If I show you now Column 8 -- I think I cut it off a
- 20 little bit -- Column 8, starting at about Line 58 in Chen,
- 21 does Chen disclose how to scan for unknown viruses?
- 22 A. Yes, it does.
- 23 Q. Is there anything in this disclosure that discloses
- 24 using a list of suspicious computer operations to identify
- 25 unknown viruses?

960

Wallach - direct

- 1 A. We have these sets of instruction identifiers.
- 2 Q. What does that tell you?
- 3 A. That are these are -- these could well be the list of
- 4 suspicious computer operations.
- 5 Q. I want to be careful here. Chen starts with
- 6 instruction identifiers.
- 7 Are those the instructions in a macro or do
- 8 those tell you what to look for in the macro?
- 9 A. Could you restate the question?
- 10 Q. So you have instruction identifiers in Chen?
- 11 A. Yes.
- 12 Q. They identify instructions?
- 13 A. Yes.
- 14 Q. Are those telling you what to look for or are those
- 15 telling you what you found?
- 16 A. They are already telling you what you found. The
- 17 instruction identifiers are the instructions.
- 18 Q. All right. Dr. Wallach, I would like to walk through
- 19 the chart now, but rather quickly. You have just told us
- 20 where different elements of the claims of the '194 patent
- 21 are found in Ji and Chen.
- 22 A. Right.
- 23 Q. I am going to go through your table. Let's pause if
- 24 there is something remarkable and worth discussing. But if
- 25 you have already told us where these things are found in Ji

Wallach - direct

Wallach - direct

1 and Chen, just let us know that and tell me which boxes I  
 2 should be checking?  
 3 A. Okay.  
 4 Q. Are you with me?  
 5 A. I am with you.  
 6 Q. Here is your table. This is the '194 patent. This,  
 7 again, is the Ji and Lo combination or the Ji and Chen  
 8 combination.  
 9 Did you find a computer-based method and did you  
 10 find a system in those combination of references?  
 11 A. Yes, I did.  
 12 Q. Did you find the step of receiving an incoming  
 13 downloadable addressed to a client by a server that serves  
 14 as a gateway to the client?  
 15 A. Yes.  
 16 Q. Let me pause on that. Can I check all three boxes  
 17 across?  
 18 A. Yes, you can.  
 19 Q. These are similar elements?  
 20 A. Yes. It's the same concept.  
 21 Q. In the system Claim 32, there is also a security  
 22 policy. Did you point that out in Ji just now?  
 23 A. Ji discloses a security policy.  
 24 Q. When you found that the Ji and Chen combination  
 25 receives a downloadable "addressed to the client," did you

1 A. Yes.  
 2 Q. Do you have an opinion whether Claims 1, 32, and 65 of  
 3 the '194 patent are invalid in light of the Ji and Chen  
 4 combination or the Ji and Lo combination?  
 5 A. Yes. My opinion is these claims are invalid because  
 6 they are obvious.  
 7 Q. Claim 2 adds that you decompose the downloadable into  
 8 downloadable security profile data. Did you find that in  
 9 the Ji and Chen or Ji and Lo combination?  
 10 A. Yes. I found it in Chen and in Lo, yes.  
 11 Q. I will check that box. I will ask you about all these  
 12 claims, your opinion on them after you tell us which  
 13 elements you found.  
 14 Let me move on to 3, which adds, The security  
 15 policy includes an access control list and comparing the  
 16 downloadable security profile data against that list.  
 17 Did you find this element in the Ji and Chen  
 18 combination or the Ji and Lo combination?  
 19 A. Yes.  
 20 Q. May I check that box?  
 21 A. Yes, you may.  
 22 Q. Claim 4 adds that you scan for a certificate and  
 23 compare the certificate against a trusted certificate.  
 24 Did you find that element in the Ji and Chen or  
 25 the Ji and Lo combination?

962

Wallach - direct

Wallach - direct

964

1 use Dr. Vigna's definition of that term?  
 2 A. Yes, I did.  
 3 Q. That is to be consistent -- is that so that you could  
 4 be consistent with Finjan saying, Here is how the patent  
 5 should be interpreted and you evaluated whether it's valid?  
 6 That was not a very well-phrased question.  
 7 THE COURT: No, it is not. It is quite leading.  
 8 I understand this is an expert. In order to get through the  
 9 testimony, it is helpful. But you can't testify, counsel.  
 10 You can't put the words in his mouth.  
 11 MR. HOLDREITH: I will move on, Your Honor.  
 12 BY MR. HOLDREITH:  
 13 Q. I am going to the next element, Dr. Wallach, which is,  
 14 Comparing by the server downloadable profile security data.  
 15 This is the element that contains the list of suspicious  
 16 operations?  
 17 A. That's correct.  
 18 Q. Did you find this element in the Ji and Chen  
 19 combination?  
 20 A. I found it in Chen.  
 21 Q. Can I check the boxes all the way across?  
 22 A. Yes, you can.  
 23 Q. The next element is, Preventing execution of the  
 24 downloadable by the client if the security policy has been  
 25 violated. Did you find that in the Ji and Chen combination?

1 A. In this instance, no.  
 2 Q. Did you find that element in some other reference?  
 3 A. Yes. I found it in the Microsoft Authenticode and  
 4 the Sun Signed Java references.  
 5 Q. I have written, "Authenticode and Signed Java" in that  
 6 box. Is that correct?  
 7 A. Yes.  
 8 Q. Now, were Authenticode and Signed Java known solutions  
 9 to comparing a certificate in 1996?  
 10 A. Yes, they were.  
 11 Q. Was it within the technical grasp of people working in  
 12 network security in 1996 to compare certificates?  
 13 A. Yes, it was.  
 14 Q. Would there be any challenge to combining a  
 15 certificate comparison with the Ji firewall?  
 16 A. There would be no challenge.  
 17 Q. Claim 5 adds, Comparing a URL from which the  
 18 downloadable originate against a known URL.  
 19 Did you find that in Ji and Chen or in Ji and  
 20 Lo?  
 21 A. I did not.  
 22 Q. Did you find that somewhere else?  
 23 A. Yes. I looked to the firewall tool kit for that  
 24 feature.  
 25 Q. Would there be any difficulty in adding a firewall



Wallach - direct

- 1 tool kit feature of comparing a URL against the known URL to  
 2 the Ji and Lo combination in 1996?  
 3 A. No. That would be very simple.  
 4 Q. Was it a known problem in 1996 and a known solution  
 5 that downloadables might come from URLs that could be  
 6 compared to a list?  
 7 A. That was very straightforward at the time.  
 8 Q. Claim 5 says, The URL is a trusted URL. Where did you  
 9 find that element?  
 10 A. I am sorry. 5 says known?  
 11 Q. 6, I am looking at 6 now. 6 says, The method of Claim  
 12 5 wherein the known URL is a trusted URL.  
 13 Did you find that somewhere?  
 14 A. I found that in the firewall tool kit.  
 15 Q. How about Claim 7, which says, Wherein the known URL  
 16 is an untrusted URL.  
 17 A. I likewise found that in the firewall tool kit.  
 18 Q. Claim 8 and Claim 32 specify that the downloadable  
 19 includes a Java applet.  
 20 Did you find disclosure of that in the Ji and  
 21 Chen combination?  
 22 A. I did not.  
 23 Q. Did you find that somewhere else?  
 24 A. Yes. I found that in the firewall tool kit.  
 25 Q. How about the next set of six claim, Claims 9, 10 and

Wallach - direct

- 1 Where did you find that?  
 2 A. In the firewall tool kit.  
 3 Q. Claim 24 adds that, to Claim 1, you compare the  
 4 downloadable against a known downloadable. Did you find  
 5 that in the Ji and Chen combination?  
 6 A. Yes, I did.  
 7 Q. Should I check that box?  
 8 A. Yes.  
 9 Q. Claim 25 says, The method of Claim 24 wherein the  
 10 known downloadable is hostile. Where did you find that?  
 11 A. In the Ji and Chen or Ji and Lo.  
 12 Q. Claim 26 says, The method of Claim 24 wherein the  
 13 known downloadable is non-hostile. Where did you find that?  
 14 A. I found it in Ji and Lo. And I also found it in the  
 15 firewall tool kit.  
 16 Q. I will put a check, because you found it in Ji and Lo.  
 17 Should I say or firewall tool kit?  
 18 A. Yes.  
 19 Q. Claim 27 adds, The method of Claim 24 further  
 20 comprising the step of including a previously received  
 21 downloadable as a known downloadable.  
 22 Where did you find that?  
 23 A. I found it in Hershey.  
 24 Q. Hershey, again, is the reference that is cited in  
 25 Chen?

966

Wallach - direct

- 1 11, and Claims 34, 35 and 36, which are specific to ActiveX  
 2 controls, JavaScript and Visual Basic script. Where did you  
 3 find those?  
 4 A. I found all of those in the firewall tool kit.  
 5 Q. Have I now filled out this page correctly?  
 6 A. Yes, you have.  
 7 Q. Dr. Wallach, Claim 12 says, The security policy  
 8 includes a default security policy to be applied regardless  
 9 of the client to whom the downloadable is addressed.  
 10 Did you find that in the Ji and Chen combination  
 11 or the Ji and Lo combination?  
 12 A. Yes, I did.  
 13 Q. Should I check that box?  
 14 A. Yes, you can.  
 15 Q. Claim 13 says, The security policy includes a specific  
 16 security policy corresponding to the client to whom the  
 17 downloadable is addressed.  
 18 Did you find that in the Ji and Chen  
 19 combination?  
 20 A. I did not.  
 21 Q. Where did you find that?  
 22 A. In the firewall tool kit.  
 23 Q. Claim 14 adds that the client belongs to a particular  
 24 group. And the security policy corresponds to the  
 25 particular group.

968

Wallach - direct

- 1 A. Yes.  
 2 Q. Claim 28 says, The method of Claim 27 wherein the  
 3 security policy identifies a downloadable to be blocked per  
 4 administrative override.  
 5 Did you find that in the Ji and Chen or the Ji  
 6 and Lo combination?  
 7 A. I found that in the firewall tool kit.  
 8 Q. Claim 28 adds, Wherein the security policy identifies  
 9 a downloadable to be allowed per administrative override.  
 10 So that's where you allow it.  
 11 A. I am sorry. 29?  
 12 Q. Yes.  
 13 A. You said 28.  
 14 Q. Thank you, Dr. Wallach. Let me re-ask the question.  
 15 Claim 29 adds that you administratively override  
 16 the downloadable to be allowed.  
 17 Did you find that?  
 18 A. In the firewall tool kit.  
 19 Q. The last claim, Claim 30, says, The step of informing  
 20 a user upon detection of a security policy violation. Did  
 21 you find that?  
 22 A. In Ji and Chen.  
 23 Q. Dr. Wallach, do you find an opinion whether Claims 2,  
 24 3, 4, 5, 6, 7, 8, 9, 10 and 11, 33, 34, 35, 36, and also  
 25 Claims 12, 13, 14, 24, 25, 26, 27, 28, 29 and 30 of the '194

Wallach - direct

1 patent are valid or invalid?  
 2 A. It's my opinion that they are invalid.  
 3 Q. Is that for the reasons you just stated?  
 4 A. Right. Because they are obvious in light of the prior  
 5 art.  
 6 Q. I realize it's a little tedious to step through those  
 7 tables. You will be happy to know we are now finished with  
 8 the '194 patent.  
 9 We are going to talk now about the '780 patent.  
 10 All right?  
 11 A. Okay.  
 12 Q. The '780 patent, Dr. Wallach, is the patent about  
 13 hashing. Do you recall that?  
 14 A. Yes.  
 15 Q. I will put a representative claim up. Do you see  
 16 that, Dr. Wallach?  
 17 A. Yes, I do.  
 18 Q. Dr. Wallach, the '780 patent in Claim 9 claims three  
 19 things as we were discussing yesterday. I am going to ask  
 20 you about them. You have to have a downloadable?  
 21 A. Right.  
 22 Q. A software component?  
 23 A. Right.  
 24 Q. A reference to the software component, I should have  
 25 said?

969

Wallach - direct

1 A. That's correct.  
 2 Q. And you have to fetch the software component?  
 3 A. Correct.  
 4 Q. And then you have to hash the downloadable and the  
 5 fetched software component?  
 6 A. That's correct.  
 7 Q. And yesterday, as we discussed, you understand there  
 8 is a construction in this case that adds the word together  
 9 to hashing, you hash together?  
 10 A. That's correct.  
 11 Q. Can you explain what it means to take a downloadable  
 12 and a software component, fetch the component and hash them  
 13 together?  
 14 A. Right. When you say "together," what you are  
 15 saying -- it's easier to describe the alternative first.  
 16 You could hash each one separately and produce a separate  
 17 hash value for each of them. If you have five components,  
 18 you have five hashes.  
 19 What this claim requires is that if you have  
 20 five components, you end up with one hash, which means --  
 21 MR. ANDRE: Objection, Your Honor.  
 22 THE COURT: Basis?  
 23 MR. ANDRE: He is citing improper claim  
 24 construction that the Court provided.  
 25 THE COURT: See counsel.

Wallach - direct

1 (The following took place at sidebar.)  
 2 THE COURT: Mr. Andre, do me a favor, when you  
 3 stand up an object, don't just stand there, get my  
 4 attention.  
 5 MR. ANDRE: This is the issue yesterday on the  
 6 '780 patent. He stated if you get five hashes, you get a  
 7 single ID. That was the proposed construction they provided  
 8 to Your Honor. They wanted a single downloadable ID. Your  
 9 Honor rejected that. You said you just need to generate an  
 10 ID.  
 11 MR. HOLDREITH: If he said single ID, I couldn't  
 12 speak to him --  
 13 THE COURT: Why don't you lead him and correct  
 14 it.  
 15 MR. HOLDREITH: I will.  
 16 (End of sidebar conference.)  
 17 THE COURT: The objection is sustained.  
 18 BY MR. HOLDREITH:  
 19 Q. I want to focus my question on the hashing process,  
 20 what it means to hash them together. Not so much the part  
 21 of generating the ID.  
 22 A. Yes.  
 23 Q. How do you take a downloadable and a software  
 24 component and perform a hash on them together?  
 25 A. So when you -- I mentioned this yesterday. A hash

972

Wallach - direct

1 function takes a string of arbitrary length and produces a  
 2 summary of fixed length, no matter how big the original  
 3 string was.  
 4 So when you say "hashing together," that means,  
 5 the only way I can interpret that is that you bring the  
 6 strings together, so if you are hashing two things together,  
 7 you bring the two strings together and run the hash function  
 8 over it.  
 9 Q. Can you do one hash on those two things put together?  
 10 A. Yes, you can.  
 11 Q. How does WebWasher actually work?  
 12 A. What WebWasher does is it separately hashes each  
 13 software component that might go through, and it never  
 14 combines them, it never places them together.  
 15 Q. So if WebWasher were to retrieve a downloadable and a  
 16 software component, can you just walk through the steps of  
 17 what WebWasher would do?  
 18 A. WebWasher treats each component as a completely  
 19 independent entity. For each individual component, it will  
 20 do this analysis that we have talked about for previously  
 21 unknown viruses, and there is an optional feature in  
 22 WebWasher that can be used to check digital signatures on a  
 23 downloadable.  
 24 Again, if there are five components, each one  
 25 will be checked independently.

Wallach - direct

- 1 A. May 30th, 1996.
- 2 Q. Is this prior art to the '780 patent?
- 3 A. Yes, it is.
- 4 Q. You also mentioned Microsoft Authenticode. I am now
- 5 showing you Exhibit DTX-1276 entitled, Microsoft
- 6 Authenticode Technology. Is this a reference you
- 7 considered?
- 8 A. Yes, it is.
- 9 Q. What is this reference -- let me ask you about the
- 10 date first. What is the date?
- 11 A. October 1996.
- 12 Q. Is this prior art to the '780 patent?
- 13 A. Yes, it is.
- 14 Q. What is the Authenticode reference, Exhibit 1276, what
- 15 does that teach?
- 16 A. This describes Microsoft's Signed ActiveX technology
- 17 that they invented as part of Internet Explorer 3.0, which
- 18 came out in 1996.
- 19 Q. Here is a description, Authenticode of Digital
- 20 Signatures. I have highlighted some text that says, starts
- 21 with, To save time, digital signature protocols use a
- 22 cryptographic digest, which is a one-way hash.
- 23 Can you explain what that means?
- 24 A. The cryptographic operations that are used in digital
- 25 signatures, some of them are expensive and some of them are

978

Wallach - direct

- 1 cheap, which is to say, some of them run very quickly and
- 2 some of them run very slowly.
- 3 So the standard way that you make these
- 4 algorithms run fast is that you try to minimize the time
- 5 doing the expensive thing and do most of it doing the cheap
- 6 thing.
- 7 In this case, the cheap thing is the hash
- 8 function. Hash functions are cheap and fast. So you run a
- 9 hash function over the code that you are trying to
- 10 authenticate and then you digitally sign just the hash
- 11 rather than signing the whole thing.
- 12 Q. When a piece of Microsoft Authenticode with a hash is
- 13 requested and received by a browser, what happens?
- 14 A. So the browser first recomputes the hash, then it --
- 15 Q. What does that mean, "recomputes the hash"?
- 16 A. Okay. So the browser received this thing. It's an
- 17 ActiveX control. The browser wants to verify the
- 18 authenticity of this ActiveX control.
- 19 So the first step is that it computes -- it
- 20 computes a hash over the ActiveX control that it just
- 21 received, and then it compares that hash to the hash in this
- 22 thing called a digital certificate.
- 23 If the hashes match, then it knows it's looking
- 24 at the same, the very same thing that was signed.
- 25 It then goes through a more complicated

Wallach - direct

- 1 cryptographic process, that isn't worth getting into right
- 2 now, to verify the signature on the hash.
- 3 Q. Dr. Wallach, are ActiveX controls downloadables that
- 4 can have a reference to a software component?
- 5 A. Yes, they can.
- 6 Q. When a browser requests an ActiveX component that has
- 7 a reference to a software component, what will the browser
- 8 do?
- 9 A. The browser will separately fetch the other ActiveX
- 10 component, and they are never hashed together.
- 11 Q. In Java -- let me ask you this: The Mueller patent we
- 12 looked at, what kind of downloadables are discussed in
- 13 Mueller?
- 14 A. Mueller discusses Java applets as downloadables.
- 15 Q. And when a browser requests a Java applet and performs
- 16 a hash of its assigned applet, is that similar to the
- 17 Microsoft process, if you can explain briefly?
- 18 A. It is comparable. The main difference is that you can
- 19 have multiple components all stored in a single file, kind
- 20 of like a zip file. And they are all downloaded together
- 21 and all of the issues are all in the file together.
- 22 Q. Do you have an opinion, Dr. Wallach, as to whether the
- 23 claims of the '780 patent are anticipated by Authenticode or
- 24 by Signed Java?
- 25 A. Yes. My opinion is that they are anticipated and/or

980

Wallach - direct

- 1 rendered obvious.
- 2 Q. All right. Have you prepared a chart that lays out
- 3 the claims of the '780 patent, similar to the charts for the
- 4 '194 patent we just looked at?
- 5 A. Yes, I have.
- 6 Q. Is this the chart, Dr. Wallach, that I have now put up
- 7 on the Elmo?
- 8 A. Yes.
- 9 Q. Similar to what we just did with the '194, the Ji and
- 10 Chen references, I would like to go through this table. Let
- 11 me know if you found these elements, and if there is
- 12 anything worth pausing on and discussing, let me know.
- 13 A. Okay.
- 14 Q. Now, again, at the heading of these columns, I see you
- 15 have referred to Authenticode and you have referred to
- 16 Signed Java.
- 17 Does that mean you need both of those references
- 18 for your analysis of these claims?
- 19 A. No. Either/or.
- 20 Q. The first element is, A computer based method for
- 21 generating a downloadable ID to identify a downloadable.
- 22 Did you find that in Authenticode and did you find that in
- 23 Signed Java?
- 24 A. Yes.
- 25 Q. Should I check these boxes?

Wallach - direct

Wallach - direct

1 So that's this code, in the parlance of the '822  
2 patent, this is the mobile protection code. Something has  
3 to be there to do the watching.  
4 Q. This abstract also discusses an instrumented applet.  
5 What does that mean?  
6 A. So instrumentation is a fancy word for modifying the  
7 or rewriting something, so, that way, you can keep track of  
8 what it's doing while it is working.  
9 Q. An applet, is that the same kind of applet we have  
10 been talking about today?  
11 A. Yes.  
12 Q. How do you instrument an applet in the meaning of the  
13 Ji '97 patent?  
14 A. You rewrite the applet. So you change some of the  
15 computer operations that it might use.  
16 Q. And it says here, "The instrumented applet is then  
17 transferred to the client (web browser) together with  
18 security monitoring code."  
19 What does that mean?  
20 A. So the client or web browser we have talked about.  
21 The security monitoring code is -- we have also talked  
22 about. This is analogous to the mobile protection code of  
23 the '822 patent.  
24 Q. It's called security monitoring code in Ji?  
25 A. That's correct.

1 rewrite the program, you can replace some of these  
2 instructions with other instructions. And when you do that,  
3 when the program is running -- when it hits one of these  
4 instructions that you have replaced, it now does what you  
5 want it to do rather than what it originally wanted to do.  
6 Q. We have just read the abstract of Ji '97. Did you  
7 read through the entire patent, all of the written  
8 description?  
9 A. Yes, I did.  
10 Q. And all of the drawings?  
11 A. Yes.  
12 Q. And the claims?  
13 A. Yes.  
14 Q. This patent has about 12 columns of text, including  
15 the claims?  
16 A. That's correct.  
17 Q. All right. I am not going to go through that in  
18 laborious detail.  
19 Did your reading of Ji '97, including the entire  
20 specification and claims, did you use all of that material  
21 in your analysis?  
22 A. Yes.  
23 Q. Do you have an opinion, based on your comparison of  
24 the '822 patent to the Ji '97 reference, whether the claims  
25 of the '822 patent are valid?

994

Wallach - direct

Wallach - direct

1 Q. And in your opinion, what's the relationship of  
2 security monitoring code in Ji to mobile protection code in  
3 Finjan's '822 patent?  
4 A. It is the same idea.  
5 Q. The rest of the abstract says, "During run time at the  
6 client, the instrumented instructions are thereby monitored  
7 for security policy violations, and execution of an  
8 instruction is prevented in the event of such a violation."  
9 What does that mean?  
10 A. That means that if there is a particular computer  
11 operation that you think can be used for some legitimate  
12 purpose but also can be used for some bad purpose, you have  
13 now replaced calls to that dangerous operation with calls to  
14 your own monitoring code. Then your monitoring code can  
15 look at how it's trying to be used and it can say, That's  
16 okay, that's not okay.  
17 All of that happens in this mobile protection  
18 code or security monitoring code.  
19 Q. Let me break that down for a second. You said you  
20 replace calls with calls to your own code. Is that what you  
21 just said?  
22 A. Yes, that's what I said.  
23 Q. Can you just explain that? What does that mean?  
24 A. This is a rewriting process. I mean, a program is  
25 something that has a sequence of instructions. And when you

996

1 A. My opinion is that the asserted claims are invalid in  
2 light of the prior art.  
3 Q. I am going to now -- did you prepare another table?  
4 A. Yes.  
5 Q. For the '822 patent?  
6 A. Yes.  
7 Q. Is that the table you prepared?  
8 A. Yes.  
9 Q. Okay. Same protocol here. Let's go through the  
10 table. If there is anything worth stopping on and  
11 discussing, would you please point it out.  
12 I am going to start with Claim 4 of the '822  
13 patent.  
14 Did you find a processor-based method in the Ji  
15 '97 patent?  
16 A. Yes.  
17 Q. What does that mean, a "processor-based method"?  
18 A. That means it runs on a computer.  
19 Q. Did you find receiving downloadable information in the  
20 Ji '97 patent?  
21 A. Yes.  
22 Q. What does that mean?  
23 A. That means that you are getting ---so downloadable  
24 information in this patent is the same thing as a  
25 downloadable in the earlier patents. It's that you are



Wallach - cross

Wallach - cross

1 bottom, where it says --

2 Q. Well --

3 A. You asked me a question. I am going to give you an

4 answer. That is how this works.

5 THE COURT: I will tell you how this works.

6 This isn't your classroom. Let's relax.

7 THE WITNESS: Okay. Very good.

8 Please ask the question again.

9 BY MR. ANDRE:

10 Q. Page 14 on this exhibit, highlight this bottom section

11 right here, this is how you can set the security policy.

12 "Mobile code that may be malicious or may perform operations

13 not required for that kind of mobile code will be blocked.

14 Only mobile code that does not perform any suspicious or

15 unrequired operations will be allowed."

16 So they didn't use -- they use the word

17 "suspicious operations" here in this policy.

18 Then when you go to the next page of this

19 document, you go back to the chart, it states, Operations

20 performed are exactly as Dr. Vigna and the patent says, Read

21 a File, Write a File. And you are saying you think those

22 should be categories and not operations. That is your

23 opinion?

24 A. I am saying these are not operations. These are

25 categories of operations. There is no such computer

1058

Wallach - cross

1 operation as, quote, usage of vulnerable functionality. If

2 you flip open a computer manual and look at lists of

3 operations that are available to a computer programmer,

4 there is no page saying, Here's the operation called usage

5 of vulnerable functionality.

6 Q. If you read the patent itself, the '194, and you read

7 it, and you saw that this is an example of list of

8 operations, wouldn't you understand what the patent was

9 talking about when you said list of operations is Read a

10 File, Write a File, that's what the patent is talking about?

11 That's what the patent is trying to convey?

12 A. You are quoting the patent accurately.

13 Q. So if you are reading the claims in light of the

14 patent, the specification and how the patentee intended this

15 to be interpreted, then doesn't common sense dictate that

16 the patentee understood Read a File and Write a File to be

17 an operation?

18 A. The patentee was clearly talking about individual

19 specific operations, not categories.

20 Q. And going back to that Column 5 again. What the

21 patent was talking about was, an example list of operations

22 deemed potentially hostile are Read a File, Write a File.

23 That's what the patentee was talking about. Right?

24 A. The patentee was trying to avoid listing a large

25 number of different ways of accomplishing the same task.

1 Q. You don't know that, do you, Doctor?

2 THE COURT: Let him finish his answer.

3 MR. ANDRE: I am sorry.

4 THE WITNESS: There are known to one of skill in

5 the art many different ways of reading and writing a file.

6 The patentee was doing us all a favor, and instead of

7 listing them all out, the patentee instead was doing us a

8 favor and saying, There are many different operations that

9 can have the behavior of reading a file.

10 BY MR. ANDRE:

11 Q. You don't know that, do you, Doctor? You are now

12 speculating on this? Because the patentee was very clear.

13 This is --

14 THE COURT: Is that an argument you want to

15 make, Mr. Andre, or do you want to ask him a question?

16 MR. ANDRE: I will withdraw that. Thank you,

17 Your Honor.

18 BY MR. ANDRE:

19 Q. We will go onto the next.

20 Now, the -- let me do a housekeeping matter.

21 You didn't provide any opinion as to all these other claims

22 in the '194 because they are dependent upon the independent

23 claims. Right? So you didn't provide any type of

24 noninfringement opinion as to all these other claims that we

25 went through in painstaking detail. Did you?

1060

Wallach - cross

1 A. We did a chart, and for every claim, I provided an

2 opinion. That's all those check boxes.

3 Q. This was the noninfringement we are talking about.

4 Not your invalidity?

5 A. Well, in the noninfringement case, we were focused on

6 the independent claims.

7 Q. That's what I am saying. So you didn't address all

8 these dependent claims, did you?

9 A. When you address the independent claim, you address

10 the dependent claims, you address the independent claims as

11 well, at the same time.

12 Q. But there is nothing else other than the computer

13 operations that you took issue with on the '194 patent?

14 A. We took issue with the "addressed to a client" and we

15 took issue with the "suspicious operations."

16 Q. Now, with respect to the '780 patent, you -- put Claim

17 1 of the '780 patent up, please.

18 With respect to the '780 patent, this last

19 element is where you took issue with Dr. Vigna's

20 infringement opinion. Correct?

21 A. That's correct.

22 Q. And in the WebWasher product, you don't dispute that

23 it performs a hashing function on a downloadable, do you?

24 A. I do not dispute that.

25 Q. And you don't dispute that it performs a hashing

Wallach - cross

Wallach - cross

1 function on the fetched software component, do you?

2 A. I don't dispute that.

3 Q. So what you dispute is performing a hashing function  
4 on the downloadable and a fetched software component  
5 together?

6 A. That's correct.

7 Q. And you heard Dr. Vigna testify that the WebWasher  
8 product does do them together, they go out and do them, does  
9 the hashing function on both of those, the downloadable and  
10 a software component together. Correct?

11 A. He argued that they happened contemporaneously. He  
12 did not argue that there was a single hashing function  
13 evaluated over both the downloadable and the fetched  
14 software components together.

15 Q. So your opinion is based upon what you just said, it  
16 has to be a single hashing function on those two together?

17 A. That is my interpretation of this claim.

18 Q. Is there any other basis that you provided for why the  
19 WebWasher product does not infringe Claim 1 of the '780  
20 patent?

21 A. That is the basis I have provided.

22 Q. Let's go to the '822 patent. If you go to Claim 4 of  
23 this patent, please. Now, with this claim, I believe your  
24 issue with regard to infringement, the WebWasher, was using  
25 this word right here, "If the downloadable information is

1 destination of the downloadable information, if the

2 downloadable information is determined to include executable  
3 code." Correct?

4 A. That's what it says.

5 Q. So if JavaScript comes into this WebWasher product,  
6 that would happen. Right?

7 A. If JavaScript comes in and the feature is enabled,  
8 then this would happen.

9 Q. So if JavaScript comes in, it infringes?

10 A. That's not true.

11 Q. Well, if JavaScript comes in, this step happens?

12 A. If JavaScript comes in, that step happens, yes.

13 Q. If Visual Basic Script comes in, that step happens?

14 A. That's true.

15 Q. Let's talk about the validity of these patents now.

16 Let me take one more step back through this claim. If

17 JavaScript comes in, all these steps happen. Right?

18 A. If JavaScript comes in, we are not disputing that any  
19 of these steps happen.

20 Q. And if Visual Basic Script comes in, all these steps  
21 happen. Right?

22 A. That's correct.

23 Q. Now let's talk about the validity of these patents.

24 Now, the references you rely upon for validity,  
25 those are all provided to you by lawyers for Secure

1062

Wallach - cross

1 determined to include executable code." Right?

2 A. That is the essence of my concern.

3 Q. You read the word "if" as whenever?

4 A. That's correct.

5 Q. And you put that in your expert report, that they are  
6 synonymous?

7 A. That's my interpretation of this claim.

8 Q. So if I said, for example, If it's Friday, I am going  
9 to go to the store, that's the same thing as, Whenever it is  
10 Friday, I go to the store?

11 A. That's one way of reading that statement.

12 Q. So you are saying that every single time, every single  
13 type of downloadable comes in, it has to be wrapped in a  
14 sandbox. That is your interpretation?

15 A. When a computer scientist uses language like this,  
16 they tend to be very precise, if this, then that.

17 When they say that, what they mean is whenever  
18 this, then that.

19 Q. You are changing words here. You are changing words  
20 in the claim from "if" to "whenever"?

21 A. I am trying to clarify the word.

22 Q. You are clarifying the word "if"?

23 A. Yes.

24 Q. Okay. "Now, the claim says that the mobile code,  
25 protection code is communicated to at least one information

1064

Wallach - cross

1 Computing. Right?

2 A. That's correct.

3 Q. And when you were doing your analysis of all the prior  
4 art that the lawyers provided to you, you didn't factor into  
5 your opinion whether or not that prior art had considered  
6 previously by the United States Patent and Trademark Office,  
7 did you?

8 A. I analyzed the prior art.

9 Q. As you testified to, you didn't identify which of that  
10 prior art had already been considered by those people  
11 working in the United States Patent and Trademark Office,  
12 did you?

13 A. I did not.

14 Q. And when you look at trying to determine validity of a  
15 patent, you have to use a standard of one of ordinary skill  
16 in the art. Correct?

17 A. That's correct.

18 Q. And in 1996, when this patent was filed --

19 A. Are we referring to the '194 patent?

20 Q. The '194 patent. In 1996, when the '194 patent was  
21 filed, by your own admission, you were not one skilled in  
22 the art at that time, were you?

23 A. It's not relevant. It's true, but it's not relevant.

24 Q. Because you are one skilled in the art today.

25 Correct?

Wallach - cross

1 A. Beyond that, yes.  
 2 Q. You are one of extraordinary skill. You are a doctor.  
 3 A. That's my job.  
 4 Q. So you look back in hindsight and see 1996 and what  
 5 was happening then and try to apply prior art at that time.  
 6 Correct?  
 7 A. Yes.  
 8 Q. And when you are looking at, for the obviousness  
 9 determinations, you didn't even consider any type of these  
 10 secondary considerations of nonobviousness, did you?  
 11 A. Perhaps you could describe what "secondary  
 12 considerations" are.  
 13 Q. That is a good point. Let me take a step back. Have  
 14 you ever been informed of what second considerations of  
 15 nonobviousness are?  
 16 A. I was informed by counsel and it is in my report. I  
 17 have forgotten them right now. Perhaps you can remind me.  
 18 Q. We will get to it. You didn't express any opinion  
 19 today of secondary considerations of nonobviousness?  
 20 A. If you remind me of the definition, I can tell you  
 21 whether I have done it. I am not sure.  
 22 Q. I don't know if I can do that. His Honor might get  
 23 mad at me for that one. Answering questions is not my job.  
 24 We will get to them later.  
 25 I want to go through the references that you

1066

Wallach - cross

1 talked about yesterday and today, and just kind of give a  
 2 real quick download on these.  
 3 One of the references you looked at was  
 4 DTX-1268. This was the reference, "combatting viruses  
 5 heuristically."  
 6 You talked about this yesterday afternoon in  
 7 some degree?  
 8 A. Yes.  
 9 Q. You didn't rely on this reference at all for your  
 10 opinion on invalidity, did you?  
 11 A. I cited it in my report and discussed it.  
 12 Q. But it wasn't one of the references that you used  
 13 today or yesterday, when you were making all the check  
 14 boxes, to see that this reference is a reference that would  
 15 invalidate any of these claims. Correct?  
 16 A. We did not use this as part of a claim chart.  
 17 Q. All right. Let's go to the references you actually  
 18 did use. Let's go first to DTX-1019.  
 19 This is the Ji patent that you were talking  
 20 about. Right?  
 21 A. This is the Ji '95 patent.  
 22 Q. The Ji '95 patent.  
 23 This is also known as the '600 patent. Right?  
 24 A. Yes.  
 25 Q. Now, this patent was considered by the United States

Wallach - cross

1 Patent and Trademark Office in the prosecution of the '194  
 2 patent. Right?  
 3 A. I am not sure.  
 4 Q. Let's go to JTX-1, please.  
 5 When you blow up this chart right here, this is  
 6 '194, you can see that. Right here, you see the Ji '600  
 7 patent, right here, do you see that?  
 8 A. Yes.  
 9 Q. Would that indicate that the United States Patent and  
 10 Trademark Office had already looked at the Ji patent in  
 11 reference to the '194 patent?  
 12 A. It would appear to indicate that.  
 13 Q. That didn't factor into your consideration regarding  
 14 your opinion of validity of this patent, did it?  
 15 A. My consideration -- first off, I never used Ji by  
 16 itself. I used Ji in combination with other references.  
 17 Q. But it didn't factor into consideration, the fact that  
 18 it was before the United States Patent and Trademark Office,  
 19 in the prosecution of the '194 patent, did it?  
 20 A. Not particularly, no.  
 21 Q. Now, in the Ji patent, itself, what it talks about is  
 22 the traditional signature-based virus detection. Right?  
 23 A. That's one of the things it talks about.  
 24 Q. It doesn't talk about proactive scanning, does it?  
 25 A. Actually, it does. It doesn't use that particular

1068

Wallach - cross

1 term, which is a Finjan trademark term or something, or  
 2 WebWasher, I forget which. But it talks about heuristic  
 3 scanning for unknown viruses.  
 4 Q. The testimony you provided earlier in this case, you  
 5 stated that the security policy in Ji is inherent in that  
 6 document. Is that correct?  
 7 A. I believe I said that.  
 8 Q. So it didn't really say there is a security policy.  
 9 You say it's just there somewhere?  
 10 A. I said that they are talking about detecting viruses,  
 11 and they didn't particularly talk about what you are  
 12 supposed to do once you detect the virus, because that part  
 13 is -- well, of course, when you detect it, you are going to  
 14 say no or something.  
 15 Q. Let's go to the next reference, see if we can get  
 16 through these things very quickly.  
 17 Let's go to the Lo 1991 reference, which is  
 18 DTX-1263.  
 19 This reference here, the Lo reference, gateway  
 20 is not discussed in this reference. Correct?  
 21 A. That's not the focus of this paper.  
 22 Q. This is not a gateway issue. In fact, this paper  
 23 requires what is to be used with a human, a human analyst?  
 24 A. Not necessarily.  
 25 Q. That is what it is describing, where you have a human

Degen - direct

Degen - direct

1 Q. Now, we are going to jump into some of the specifics  
2 in a moment. But would you tell us what information, the  
3 types of information that you actually looked at before you  
4 started or during the course of your analysis?

5 A. Yes. I was provided financial data, marketing  
6 documents, deposition testimony, things that help me put  
7 values on the patents. I talked to some Secure Computing  
8 personnel, and pretty much reviewed everything that was  
9 available as part of this case.

10 Q. And were you here during the testimony of one of  
11 Secure Computing's executives, Mr. Gallagher?

12 A. Mr. Gallagher, yes, and I had spoken with him earlier  
13 as well.

14 Q. Now, with respect to Mr. Parr's opinions, do you  
15 differ with him on his opinions?

16 A. Well, as I said, we used the same methodology, but we  
17 still have -- we get very different opinions, and it's  
18 because we disagree in some fundamental areas. First and  
19 foremost, in terms of forming the underlying profit to which  
20 to apply the rule of thumb, I differ significantly.

21 Second, within the range of the rule of thumb,  
22 basically, Mr. Parr was at the high end, a third, and I am  
23 really at the lower end, a quarter. And there is several  
24 reasons for that as well.

25 Then, finally, I applied my royalty rate to a

1 A. Right. Before we go through the details of this  
2 chart, let me just tell you that it is my opinion that if  
3 the '194 patent and either, and/or the '780 and the '822  
4 patent are infringed, that a reasonable royalty in this case  
5 would be four percent of the revenues of the products you  
6 find infringing.

7 There has been some discussion about the  
8 CyberGuard TSP appliance. My understanding is it's never  
9 actually been sold with a working WebWasher module on it.  
10 Because of that limitation, it's my opinion that Secure  
11 Computing would have been willing to pay something -- you  
12 heard Mr. Gallagher talk about the fact that by including it  
13 in their marketing materials, they were able to preserve  
14 some customer relationships and switch them over to the  
15 Sidewinder product. But certainly a four-percent royalty  
16 for that use of it would be too high.

17 So it's my opinion that a royalty of one percent  
18 would be appropriate for the CyberGuard TSP appliances for  
19 any of the patents.

20 Q. Let me just follow up on that for a second.

21 Were you here when Mr. Gallagher testified that  
22 Secure Computing has received no revenue for WebWasher  
23 itself being at least loaded onto a TSP appliance?

24 A. Yes, I was. My understanding is that they have sold  
25 WebWasher appliances, but the fees associated with using

1114

Degen - direct

Degen - direct

1 different base than Mr. Parr did. Primarily because counsel  
2 instructed me that certain things were not expected to be  
3 considered infringing, and so I deducted them from the base,  
4 hoping to inform you best for your decision.

5 Q. Now, with regard to both Mr. Parr's opinion and your  
6 opinion, is it the case that they only become relevant if  
7 the jury finds some patents infringed and valid?

8 A. That's correct. The assumptions I make in valuing a  
9 patent are that the patents are valid and infringed. And  
10 then in the context of this hypothetical negotiation, that's  
11 where the people start, that they know that and they are not  
12 discounting for either one of those.

13 Q. Mr. Degen, have you prepared an overview chart that  
14 summarizes your opinions regarding, I think this chart  
15 relates to the Finjan claims against Secure?

16 A. I have prepared such a chart, yes.

17 Q. Let me see if I can put that up here.

18 Is that the --

19 A. No.

20 Q. That's not the chart, you are right. It's 1335.

21 Is this the chart?

22 A. Yes, it is.

23 Q. Could you just, at a high level, walk us through what  
24 your opinion is, and then we will go back and sort out the  
25 detail.

1116

1 WebWasher they have never collected. They have never  
2 actually turned it on and gotten revenues from WebWasher.

3 Q. Do you mean TSP appliances?

4 A. Yes, I do. I mean TSP appliances.

5 Q. Even though they have never activated that feature for  
6 any customer, it appears that you have included sales of the  
7 CyberGuard TSP appliance?

8 A. Yes. I include them and I apply a one-percent royalty  
9 to them. Again, primarily because Secure Computing did use  
10 the WebWasher in its advertising. So it did get some value  
11 from it.

12 Q. Finjan has asserted three patents against Secure in  
13 this case. Have you distinguished between the patents; for  
14 example, you know, if the jury finds that they are not all  
15 infringed, have you broken out a scenario that takes into  
16 account that possible situation?

17 A. Yes. You might have guessed that when I gave my first  
18 opinion because I was emphasizing the importance of the  
19 inclusion of the '194. If, for any reason, the '194 patent  
20 is found either invalid or not infringed and you did the  
21 '780 or the '822 or both, are the only infringed patents  
22 here, it is my opinion that a reasonable royalty would then  
23 only be two percent. That is primarily because most of the  
24 marketing materials and an everything I have reviewed,  
25 certainly all of Mr. Parr's analysis, focuses on proactive



Degen - direct

1 is the same one I have on the floor here, but I want to blow  
 2 something up.  
 3 There was a point in time before Secure acquired  
 4 CyberGuard where CyberGuard was a standalone company. Is  
 5 that your understanding?  
 6 A. Yes. CyberGuard purchased WebWasher and then was  
 7 bought by Secure in '06.  
 8 Q. So all these numbers that you have got up here at the  
 9 top of Exhibit 1340 for CyberGuard Corporation, are all  
 10 those numbers, do they reflect financial information for  
 11 WebWasher when it was part of CyberGuard Corporation, before  
 12 the Secure acquisition?  
 13 A. That's my understanding. That's what the documents  
 14 indicate.  
 15 Q. And at any time that CyberGuard was in existence as a  
 16 standalone company with WebWasher as a part of it, did they  
 17 ever make money on the WebWasher product?  
 18 A. Yes. In quarter four of '04, they made four-tenths of  
 19 a percent profit. But the cumulative profit would be  
 20 significantly negative, seven percent loss.  
 21 Q. Mr. Parr, now -- I am sorry, Mr. Degen. Now that we  
 22 have Exhibit 1340, what do you do with that to get a  
 23 royalty?  
 24 A. As I was explaining, I averaged the Secure Computing  
 25 profit for the six quarters, I have data available specific

1138

Degen - direct

1 to WebWasher. I got 16 percent. A quarter of that would be  
 2 four percent. A third of that would be about five and a  
 3 third percent. So that was my rule of thumb range,  
 4 somewhere between four and essentially five and some change.  
 5 Q. You are familiar with the 15 Georgia-Pacific factors?  
 6 A. Yes, I am.  
 7 Q. The numbers and analysis that we went through, do  
 8 those fit into one or more of the Georgia-Pacific factors?  
 9 A. Yes. Factor 12 talks about the customary profit  
 10 allocation in an industry. And in this case, there is not  
 11 really evidence of one specific of this industry. So  
 12 Mr. Parr and I both applied the commonly used across  
 13 industry rule of them. And it's applied to net operating  
 14 profits. So it would be Factor 12.  
 15 Q. I would now like to ask -- were you done in that?  
 16 A. Yes.  
 17 Q. So you got four percent, basically?  
 18 A. Four to five-and-a-half was sort of where, what I used  
 19 for my range of valuation of the other factors.  
 20 Q. I would like to now turn to Georgia-Pacific Factor 4.  
 21 I have up here one of the graphics that Mr. Parr used. You  
 22 can see Georgia-Pacific Factor 4 is the licensor's  
 23 established policy and marketing program to maintain its  
 24 patent monopoly by not licensing others to use the invention  
 25 or by granting licenses under special conditions designed to

Degen - direct

1 preserve that monopoly.  
 2 Did you look at that factor in arriving at your  
 3 opinion?  
 4 A. I looked at all of these factors. This is one where I  
 5 think I have a very different valuation of the evidence than  
 6 Mr. Parr has, because he basically concluded that Finjan was  
 7 trying to preserve their patent monopoly, and the evidence I  
 8 saw in the case said they were not.  
 9 Q. What is some of the evidence that you saw that led you  
 10 to the conclusion that they were not trying to preserve  
 11 their monopoly?  
 12 A. Their actual license to Microsoft.  
 13 Q. Mr. Degen, I want to caution you, if you are going to  
 14 go into any numbers, if you think you need to go into a  
 15 number there, we will have to ask Mary Bunch to leave. If  
 16 you need to go there, let me know and we will ask her to  
 17 leave. If not, fine.  
 18 A. I don't think we will need to go there, because this  
 19 factor is really about their desire to preserve their  
 20 monopoly by not licensing. And all I really want to note is  
 21 that in the Microsoft license that you have already heard a  
 22 lot about, is a clear willingness to license to probably the  
 23 biggest threat in the industry.  
 24 So I absolutely can't accept the fact that  
 25 Finjan was trying to preserve its patent monopoly by

1140

Degen - direct

1 licensing to the 900-pound gorilla in the room.  
 2 Q. Let me now put another document on the screen and ask  
 3 you if you considered this one in analyzing this willingness  
 4 to license factor.  
 5 A. Right. He is going to show you two more here. One is  
 6 the web route letter and the other is a letter to Alladin,  
 7 that I both understand to be demonstrating a willingness to  
 8 license.  
 9 Q. I think we have seen this before. Is this one of  
 10 those that supports your opinion that they were willing to  
 11 license it?  
 12 A. Yes. My reading of this letter is that Finjan is  
 13 offering a -- is offering to discuss a license to its patent  
 14 portfolio.  
 15 Q. You had also mentioned a letter to Alladin. Let me  
 16 see if I can get that up on the screen.  
 17 Is this the letter that you were referring to?  
 18 A. Yes.  
 19 Q. And what does the "Re:" line on this letter say,  
 20 that's Exhibit 1075?  
 21 A. Patented technology of Finjan Software.  
 22 Q. Have you read this letter?  
 23 A. Yes, I have.  
 24 Q. Does this letter make reference to the '194 patent,  
 25 which is one of the patents-in-suit here?

Degen - direct

Degen - direct

1 you are deducting now? I want to make sure I am pointing to  
 2 the right start?  
 3 A. Thank you for fixing me. Before I deduct the  
 4 non-proactive scan modules, I take out the sales that were  
 5 made by WebWasher while WebWasher was operating out of  
 6 Germany. So the product was made in Germany, it was sold  
 7 out of Germany, or other parts of the world. Basically, I  
 8 take out all the sales that occurred outside the United  
 9 States. I am not a legal expert, but I have worked now for  
 10 these cases, my understanding is it has to be made, sold or  
 11 used in the United States.  
 12 Q. Let's look at these numbers just a little bit. So the  
 13 numbers go from the left-hand column, which is the farthest  
 14 away in time, over to the most currents, which is the  
 15 right-hand column?  
 16 A. That's right. It runs from quarter 4 of '04, November  
 17 '04, through quarter three of '07.  
 18 Q. So the line that says, Deduct U.S. -- Non-U.S.  
 19 Software Revenue, you have not made any deductions for the  
 20 time when Secure Computing, when they took over. Right?  
 21 A. That's correct.  
 22 Q. You only deducted under when CyberGuard owned it?  
 23 A. That's correct. As soon as CyberGuard started filling  
 24 the orders out of the United States, processing orders, then  
 25 I have included all the foreign sales.

1 government's use. And based on what counsel told me, I have  
 2 subtracted those.  
 3 Q. Mr. Degen, if -- there is a dispute between you and  
 4 Mr. Parr and us and these folks here on what should be in or  
 5 out of the base.  
 6 If the jury decides that some things that you  
 7 have taken out should be in, do your charts allow them to  
 8 find those numbers and add them back in?  
 9 A. Yes. Let's just be clear. I don't think the dispute  
 10 is between Mr. Parr and myself. I think it's among the  
 11 lawyers. These are legal questions.  
 12 Just so we are clear. In the end, my opinion is  
 13 that the royalty rates I opine to should apply to whatever  
 14 sales you determine to be infringing and whatever sales the  
 15 Court determines to be infringing.  
 16 Q. I just want to know if they, is there enough  
 17 information in here that they can make a decision, okay,  
 18 this should be in or this should be out, the numbers are  
 19 there for them to do the math, if they need to?  
 20 A. Sort of. If all of my deductions are out, you can go  
 21 back to Mr. Parr's base. But these deductions -- the first  
 22 thing I did is take out the non-U.S. sales. Then I took out  
 23 the non-proactive scanning modules. But I didn't want to  
 24 double count. So when I take out the non-proactive scanning  
 25 modules, I don't deduct the non-proactive scanning modules

1154

Degen - direct

Degen - direct

1156

1 Q. Did Mr. Parr take into account sales outside the  
 2 United States?  
 3 A. His base number includes the WebWasher sales outside  
 4 the United States in this period.  
 5 Q. So what was the next deduction?  
 6 A. The next deduction is -- after the non-U.S. software  
 7 deduction, the next deduction I do is for non-proactive scan  
 8 modules. These are things like the URL filter, the real  
 9 cash cow of the WebWasher suite. And, so, basically, my  
 10 understanding from, I don't know whether it was a  
 11 conversation -- I think it was a conversation with  
 12 Mr. Stecher and with Cristoph Alme of Secure Computing, that  
 13 there were three modules that actually embodied the  
 14 proactive scanning. That would be anti-virus, anti-malware,  
 15 and the content protector. So the non-proactive modules  
 16 here would be everything else.  
 17 I calculate and deduct those revenues. You see  
 18 some percentage numbers there. That's to help me calculate,  
 19 there is a few missing quarters of data. And I fill them in  
 20 with interpolation or similar techniques.  
 21 Q. Then you make another deduction?  
 22 A. Yes. The final deduction I make, and it only occurs I  
 23 think in four of the quarters, is to deduct for sales to the  
 24 federal government. My understanding is that under certain  
 25 circumstances, no royalties can be collected for the federal

1 that were sold outside the U.S. So you have to be a little  
 2 careful in terms of reconstructing this.  
 3 Q. All right. So after you are all done, you come up  
 4 with a base. Is that right?  
 5 A. That's correct. This gets us a software base. And my  
 6 software base is \$11,001,636.  
 7 Q. Then do you also calculate a hardware base or an  
 8 appliance base?  
 9 A. I do a very similar calculation for a hardware base.  
 10 And basically, I only have two adjustments to do here. One  
 11 is, the first thing I subtract in the hardware base is the  
 12 CyberGuard TSP Appliance sales. And that's simply because I  
 13 want to apply a separate royalty to them, a different  
 14 royalty, of only one percent, because they were never used  
 15 by the customers and they played a pretty minimal role in  
 16 selling the device.  
 17 The only other deduction I do again is sales to  
 18 the federal government, and that's your dispute.  
 19 Q. Then you summarize these in a chart. Is that right?  
 20 1335, I think. I have got it on the screen here. You  
 21 probably have it by exhibit number.  
 22 A. Yes.  
 23 Q. We looked at this earlier, we have looked at the  
 24 beginning, we have gone through all the detail, now we are  
 25 back.

Degen - direct

1 What is the final conclusion with regard to  
2 Finjan's assertion of patents against Secure?  
3 A. Okay. I am sorry for spoiling the anticipation. But  
4 as I had already told you, the bottom line is \$663,000.  
5 That is four percent of WebWasher's software, four percent  
6 of WebWasher modules that include proactive scanning, four  
7 percent of all WebWasher appliances, excluding foreign sales  
8 and sales to the federal government -- no, there is no  
9 foreign sales, just the federal government. And then,  
10 finally, one percent of CyberGuard TSP Appliance numbers.  
11 If I multiply those out and add them up, I am at \$663,000.  
12 Just to complete the package, and you will see  
13 the detail in Footnote 2, if, for some reason, the '194 is  
14 found invalid and/or not infringed, then where I have four  
15 percent in that table, it should be two percent, and the  
16 total will be 392,000. And I will just ask you to consider  
17 the magnitude of those relative to the valuations you have  
18 seen. And I think you will see that they are very  
19 reasonable in terms of what someone would pay for the idea  
20 un-implemented, just to use it, not to own it.

21 MR. SCHUTZ: Your Honor, this is the segue to  
22 Finjan's case against Secure.

23 THE COURT: Okay. Why don't we call a time out  
24 for the weekend.

25 Ladies and gentlemen, please remember my earlier

1158

Degen - direct

1 instructions to you: Keep an open mind, do not discuss this  
2 case with anyone, no research whatsoever. Travel safely.  
3 9:00 Monday. See you.

4 (Jury leaves courtroom at 4:30 p.m)

5 THE COURT: All right. Real quickly, I wanted  
6 to make an observation regarding the current state of the  
7 joint proposed final jury instructions. I count 49  
8 instructions total. It appears that, if I am counting  
9 correctly, 27 are contested still. It is my hope that, over  
10 the weekend, counsel will be able to put your heads  
11 together. It's unacceptable to me that we should come to  
12 our conference, our prayer conference, with this many  
13 contested instructions.

14 Counsel would still be able to preserve your  
15 positions with regard to objections that have been  
16 interposed for various reasons, and, yet, it seems to me,  
17 come together on a good set of instructions that will give  
18 this jury the guidance it needs to get through this rather  
19 difficult area.

20 Anything you need from me before we adjourn?

21 Have a good weekend.

22 (Court recessed.)

23 - - -

24 Reporter: Kevin Maurer

25

1159

IN THE UNITED STATES DISTRICT COURT  
IN AND FOR THE DISTRICT OF DELAWARE

FINJAN SOFTWARE LTD., : Civil Action  
 : No. 06-369 (GMS)  
Plaintiff, :  
 :  
v. :  
 :  
SECURE COMPUTING CORPORATION, :  
CYBERGUARD CORPORATION, :  
WEBWASHER AG and DOCS 1 :  
THROUGH 100, :  
Defendants. :

Wilmington, Delaware  
Monday, March 10, 2008  
9:30 a.m.  
Day Six of Trial

BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
and a Jury

## APPEARANCES:

PHILIP A. ROVNER, ESQ.  
Potter Anderson & Corroon LLP  
-and-  
PAUL J. ANDRE, ESQ.,  
LISA KOBIALKA, ESQ.,  
JAMES HANNAH, ESQ.,  
MEGHAN WARTON, ESQ.,  
KRIS KASTENS, ESQ., and  
HANNAH LEE, ESQ.  
King & Spalding  
(Silicon Valley, California)

Counsel for Plaintiff

1 THE COURT: Good morning, counsel.  
2 (Counsel: Good morning, Your Honor.)  
3 THE COURT: I understand there is an evidentiary  
4 issue we need to talk about. I think we might still be  
5 waiting for a juror, too.

6 MR. SCHUTZ: Your Honor, after some further  
7 discussions with Mr. Rovner, there is a potential  
8 evidentiary issue we may be able to defer. It has to do  
9 with an exhibit that they have identified for possible use  
10 with Mr. Parr. Mr. Rovner tells me that depending on  
11 Mr. Degen's testimony this morning, he may not use it. If  
12 Your Honor wishes -- it's a three-minute issue, and if it  
13 does come up, we can defer it if you wish,

14 THE COURT: We can do that.

15 MR. ANDRE: Your Honor, may I discuss a  
16 housekeeping matter.

17 THE COURT: Sure.

18 MR. ANDRE: Mr. Degen will be the Defendants'  
19 last witness. So we will be moving for our Rule 50 motions  
20 thereafter. I was talking to counsel about how we want to  
21 proceed these last two days.

22 We think we might be able to get our rebuttal  
23 case in today, we aren't sure. It depends on how long the  
24 cross goes. We have the charge conference. We filed  
25 another set of jury instructions this morning. We have

1160

## 1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
3 KELLY J. FARNAN, ESQ.  
Richards, Layton & Finger  
-and-  
4 RONALD J. SCHUTZ, ESQ.,  
5 CHRISTOPHER A. SEIDL, ESQ.,  
6 TREVOR J. FOSTER, ESQ., and  
7 JAKE M. HOLDREITH, ESQ.  
Robins, Kaplan, Miller & Ciresi, L.L.P.  
(Minneapolis, MN)

Counsel for Defendants

1162

1 about, substantive, about four or five issues on those jury  
2 instructions. There is a couple, three or four of them that  
3 we don't think they should be there, they don't think they  
4 should be there, that type of thing.

5 THE COURT: You mean the jury instructions,  
6 there doesn't need to be an instruction on a particular  
7 topic?

8 MR. ANDRE: Exactly. The substantive disputes,  
9 there is a dispute on obviousness, as Your Honor may figure,  
10 with KSR.

11 THE COURT: I guess it's the case that the  
12 parties are going to benefit from some guidance from the  
13 various groups that weigh in on model jury instructions at  
14 some point. I think most of them have not.

15 MR. ANDRE: Not yet. That's correct.

16 We didn't know if you wanted to try to have the  
17 charge conference on the jury instructions late this  
18 afternoon, even if we do not finish today and we can carry  
19 on tomorrow morning. Or if you want to do it tomorrow  
20 morning.

21 THE COURT: We should do it today. Because what  
22 I would like to do is to have the instructions collated and  
23 in shape so that there is no delay with regard to getting  
24 them to the jury.

25 MR. ANDRE: If we have our last witness on the



Degen - cross

Degen - cross

1 MR. SCHUTZ: Your Honor --  
 2 THE WITNESS: Ultimately, the jury will decide  
 3 which products they believe are infringed.  
 4 THE COURT: Hold on. Why don't you rephrase.  
 5 Try to be responsive.  
 6 If the question calls for a yes or no, you can  
 7 give a yes or no. You will be given an opportunity to  
 8 explain at some point.  
 9 THE WITNESS: Thank you, Your Honor.

10 BY MR. ROVNER:  
 11 Q. I will rephrase the question. Didn't, in your expert  
 12 report, your rebuttal report, dealing with the Finjan  
 13 patents, didn't you say that, For purposes of this report, I  
 14 have assumed that Finjan's patents are valid and infringed  
 15 by Secure Computing's accused products? Yes or no?  
 16 A. Yes.  
 17 Q. Are you backing off that statement that you wrote in  
 18 your report?  
 19 A. No.  
 20 Q. But isn't it a fact that that is exactly -- that  
 21 sentence is what you violated in coming up with your  
 22 conclusions in your report and in your trial testimony on  
 23 Friday?  
 24 A. No.  
 25 Q. Didn't you -- the CyberGuard TSP Appliance is an

1 anyone. It is not excluded from my royalty base, but I  
 2 choose to assign a separate royalty rate to it because of  
 3 the way it was used in that particular product.  
 4 Q. Okay. Now, let's talk about what you said in your  
 5 deposition. Let me hand that to you.  
 6 MR. ROVNER: May I approach, Your Honor?  
 7 THE COURT: Yes.  
 8 What page, Mr. Rovner?  
 9 MR. ROVNER: Page 127.  
 10 BY MR. ROVNER:  
 11 Q. Mr. Degen, can you turn to Page 127?  
 12 A. Yes, I have it.  
 13 Q. Page 127, Line 19. Question directed to you, "Why did  
 14 you decide to include some of the accused infringing  
 15 products that Secure Computing says don't infringe and  
 16 didn't and went ahead and included some of the accused  
 17 infringing products that Secure Computing says doesn't  
 18 infringe?"  
 19 Your answer was: "My understanding is the  
 20 non- -- the modules that I have excluded are not even  
 21 alleged to include the proactive scanning features which  
 22 would contain the elements disclosed in the patent."  
 23 That was your testimony. Correct?  
 24 A. That's correct.  
 25 MR. SCHUTZ: Your Honor, he didn't read the

1188

Degen - cross

1 accused product. Correct?  
 2 A. That's my understanding, yes.  
 3 Q. And you have presumed that that doesn't infringe.  
 4 Correct?  
 5 A. No, I have not. I include it in my royalty base and I  
 6 apply a royalty of one percent to it.  
 7 Q. Haven't you eliminated, in your royalty, base all  
 8 CyberGuard TSP appliances sales?  
 9 A. No. I separate them from the WebWasher appliances.  
 10 But if you look at my summary table, there is a line that  
 11 explicitly lists the CyberGuard TSP appliances.  
 12 Q. But then you discount them. Mr. Parr included the  
 13 CyberGuard TSP products in his royalty base. You took them  
 14 out. Correct?  
 15 A. No, that's not correct. They are part of my royalty  
 16 base and they are a line on my summary table.  
 17 Q. But you acknowledge them but then you eliminate them.  
 18 You take them out because you say they didn't contain the  
 19 infringing -- the WebWasher technology. Isn't that correct?  
 20 A. That's not correct. I assign a separate royalty value  
 21 to them because the value of the accused technology to  
 22 CyberGuard in that particular product was limited in as much  
 23 as they never really did use it to sell anything. The  
 24 convenience of being able to just install it as part of  
 25 their master load, but they never actually licensed it to

1190

Degen - cross

1 complete answer.  
 2 MR. ROVNER: You will have redirect.  
 3 THE COURT: In the interests of completeness --  
 4 BY MR. ROVNER:  
 5 Q. This is what you continued. "So while there may be a  
 6 dispute, an ongoing dispute about whether the patent  
 7 elements are, in fact, in Secure's commercial embodiment or  
 8 not, the things I have excluded, I have excluded because my  
 9 understanding is that they do not contain any proactive  
 10 scanning feature that could be construed as containing the  
 11 claims of the patents."  
 12 Is that your complete answer?  
 13 A. Yes, it is.  
 14 Q. So you excluded certain products. And that would be  
 15 the CyberGuard TSP product, wouldn't it?  
 16 A. Well, I didn't exclude certain products. They all  
 17 fall under the rubric of WebWasher. What I have excluded is  
 18 the particular modules that did not embody the proactive  
 19 scanning feature.  
 20 In my discussions with counsel and the people  
 21 from Secure, I understood that the modules were sold  
 22 separately, and that only the -- I only included the modules  
 23 that had the proactive scanning code included in them.  
 24 Q. Okay. Now, you heard Mr. Gallagher last week say that  
 25 the CyberGuard TSP product did have the source code embodied

Degen - cross

1 in the -- the WebWasher source code in the CyberGuard TSP  
 2 product, didn't you?  
 3 A. Yes, I did.  
 4 Q. But that's not what you said just now or what you said  
 5 in your deposition. You eliminated those because it didn't  
 6 embody the CyberGuard TSP product, did not embody the -- did  
 7 not have that source code in it. Correct?  
 8 A. There is a confusion going on here. We are confusing  
 9 the fact that I segregate part of the base for the  
 10 CyberGuard TSP appliances with the adjustment I do for the  
 11 nonaccused modules.  
 12 The CyberGuard TSP is included in a base and  
 13 applied to a one-percent royalty. The software modules that  
 14 are part of WebWasher I excluded, you saw as a calculation  
 15 of the base. And there I excluded them because I understood  
 16 they did not include the proactive scanning technology. I  
 17 think you are mixing those two things up.  
 18 Q. Yes or no, Mr. Degen: Does the CyberGuard TSP product  
 19 contain the WebWasher functionality, whether it is turned on  
 20 or not, is it there?  
 21 Strike that.  
 22 Is the WebWasher proactive scanning technology  
 23 available for purchase in the CyberGuard TSP product?  
 24 A. My understanding is that it's available for purchase.  
 25 My understanding is also that no one has ever purchased it,

1192

Degen - cross

1 and that CyberGuard actively discouraged the sale. It was  
 2 technically available for sale. But as Mr. Gallagher  
 3 testified, his strategy was not to sell it, and they have  
 4 not.  
 5 Q. They discouraged the sales. Is that what you are  
 6 saying?  
 7 A. That's what I understood Mr. Gallagher to say the  
 8 other day.  
 9 Q. PTX-263, please. That Secure Computing document is  
 10 off their website. Do you see that?  
 11 A. Yes, I do.  
 12 Q. Could you turn to Page 2. The bottom of Page 1, do  
 13 you see where it says, CyberGuard TSP Features and Benefits?  
 14 A. Yes, I do.  
 15 Q. Would you turn to the next page, please. Do you see,  
 16 WebWasher content filtering advertising there?  
 17 A. Yes, I do.  
 18 Q. Are they actively discouraging the purchase there?  
 19 A. It says what it says. My understanding is that  
 20 they -- when customers wanted to inquire about it, they were  
 21 trying to migrate them to their Sidewinder product. That  
 22 was the testimony of Mr. Gallagher.  
 23 Q. I am asking you whether you said, seconds ago, that  
 24 they discouraged the sale of the WebWasher technology in the  
 25 CyberGuard TSP product.

Degen - cross

1 Is that, to you, discouraging the sale?  
 2 THE COURT: When you say that you might want to  
 3 refer --  
 4 BY MR. ROVNER:  
 5 Q. The WebWasher content filtering. It looks to me like  
 6 they are marketing it. You say they discouraged the sale.  
 7 Is that your testimony?  
 8 A. You are mischaracterize --  
 9 Q. How am I mischaracterizing --  
 10 MR. SCHUTZ: Your Honor --  
 11 THE COURT: Yes, Mr. Rovner. Mr. Maurer can't  
 12 take both of you talking at the same time.  
 13 THE WITNESS: My testimony was I understood from  
 14 Mr. Gallagher they were actively discouraging it. That is  
 15 not my opinion. Those were his statements. It is in their  
 16 documents. You looked at these documents with him the other  
 17 day. But my understanding is they use the opportunity to  
 18 market Sidewinder, and, to this point, have been completely  
 19 successful in discouraging the sale of WebWasher on this  
 20 CyberGuard appliance.  
 21 BY MR. ROVNER:  
 22 Q. Do you see a discrepancy in Mr. Gallagher's testimony  
 23 about discouraging the sale of WebWasher content in  
 24 CyberGuard TSP when you compare it to their marketing  
 25 materials that were on their website?

1194

Degen - cross

1 A. No, I do not.  
 2 Q. You see no discrepancy?  
 3 A. No, I do not. He admitted that it was listed on their  
 4 website and it was in their marketing materials. But their  
 5 strategy was to actively discourage, when people called and  
 6 wanted it, to migrate them to Sidewinder, that they really  
 7 intended not to sell it even though it was in their  
 8 marketing materials.  
 9 Q. Let me see if I can come up with something that might  
 10 put a point on this.  
 11 You testify at trials. Right? One of your job  
 12 is as a damages expert. Right?  
 13 A. That's correct.  
 14 Q. And your marketing materials are your resume.  
 15 Correct? Your CV?  
 16 A. My CV is what it is. We also do other marketing  
 17 material.  
 18 Q. On your CV, you market yourself as an expert in patent  
 19 infringement damages cases. Right?  
 20 A. Well --  
 21 Q. I can read it if you don't know your own CV?  
 22 A. Why don't you read it to me. I don't know it by  
 23 heart.  
 24 Q. "Professional Experience" -- this is attached to your  
 25 expert report -- "I have testified in numerous litigations

Degen - cross

1 involving intellectual property and other business disputes  
 2 and in postal rate cases."  
 3 You actually told us about your role in postal  
 4 rate cases. Right?  
 5 A. That's correct.  
 6 Q. In your resume, your marketing piece, are you actively  
 7 discouraging people from hiring you in postal rate cases or  
 8 in intellectual property cases?  
 9 A. I am not. But I currently actively discourage the  
 10 Postal Service from using me in those cases because we are  
 11 transitioning to other witnesses. It is still listed in my  
 12 resume. From a corporate standpoint, we are transitioning  
 13 to other witnesses within the company.  
 14 It is in my resume. But I haven't testified in  
 15 a postal rate case in several years and we are giving  
 16 younger people an opportunity.  
 17 Q. So your resume is not 100 percent correct because  
 18 instead of -- your resume is saying what you have done but  
 19 it is certainly not to be construed as something you would  
 20 do in the future. Is that what you are saying?  
 21 A. That's not correct. Just like WebWasher and  
 22 CyberGuard. If the Postal Service really needs me for a  
 23 particular assignment, then I am available. But if it is an  
 24 assignment somebody else can do, we are going to have  
 25 somebody else at my firm do it.

1196

Degen - cross

1 Q. Your firm is still doing postal rate cases, you are  
 2 not. Is that correct?  
 3 A. That's correct.  
 4 Q. Do you notice that, the annual report for Secure?  
 5 A. Yes.  
 6 Q. Could you tell the members of the jury what the  
 7 purpose of an annual report is?  
 8 A. My understanding is that annual reports are final to  
 9 inform shareholders about what the firm has been up to and  
 10 report financial results.  
 11 Q. Shareholders are the owners of the company. Right?  
 12 A. That's correct.  
 13 Q. And you want to be honest with your owners. Right?  
 14 A. Yes.  
 15 Q. You see, "Enterprise Gateway Security Appliances." Do  
 16 you see that?  
 17 A. Yes.  
 18 Q. And in this annual report -- you have seen this  
 19 before, haven't you?  
 20 A. Yes, I have.  
 21 Q. It's describing the products in the Secure Computing  
 22 line. Right?  
 23 A. Yes. It appears to be, yes.  
 24 Q. Could you turn to Page 9, please. The top box, would  
 25 you highlight that, please.

Degen - cross

1 It's entitled, "CyberGuard Total Stream  
 2 Protection (TSP)."  
 3 Do you see that?  
 4 A. Yes. That's what it says.  
 5 Q. Could you tell me where in that paragraph Secure is  
 6 telling its owners that they are discouraging the sale of  
 7 the CyberGuard TSP product?  
 8 A. I don't see any references to that.  
 9 Q. Okay. Isn't it a fact that they are marketing this  
 10 product and isn't "zero-hour attacks," isn't that another  
 11 word, another phrase for proactive scanning?  
 12 A. My understanding is it can be, yes.  
 13 Q. Are they misleading the owners of the company?  
 14 A. I wouldn't want to speculate on that.  
 15 Q. Your understanding is, based on Mr. Gallagher's  
 16 testimony, that they are discouraging the sales. And where  
 17 does it say that?  
 18 A. It does not.  
 19 Q. Okay. And when was the purchase -- his testimony, as  
 20 I understand it, was that they marketed this for a little  
 21 bit just to sort of appease the CyberGuard customers. Am I  
 22 right, something like that?  
 23 A. I don't think that's quite right. I think he  
 24 testified that it's still technically available.  
 25 Q. But they kept this on the website, made it sound like

1198

Degen - cross

1 he was keeping it on for a little bit, for the transition.  
 2 Right?  
 3 A. I think it's still there.  
 4 Q. Let's see if it is. When was the acquisition of  
 5 CyberGuard by Secure?  
 6 A. In early 2006.  
 7 Q. Could you turn to page 87 of the report?  
 8 What was the date again?  
 9 A. I think it was in early 2006. I don't know the exact  
 10 date off the top of my head.  
 11 Q. What is the date of the report there? This is the  
 12 signature page of the annual report that we just looked at,  
 13 JTX-45. What is the date?  
 14 A. March 16, 2007.  
 15 Q. When this report went out to the owners of the  
 16 company, 14 months later, they are still advising CyberGuard  
 17 TSP. Right?  
 18 A. Yes.  
 19 Q. With proactive scanning feature, that feature  
 20 included. Right?  
 21 A. In this document they are calling it zero-day  
 22 response, whatever.  
 23 Q. You understand it to be proactive scanning. Right?  
 24 A. I am not sure that proactive scanning is the only  
 25 zero-day technology. But basically, yes.

Degen - cross

Degen - cross

1 Q. Fair enough. So this is the last document that I am  
2 aware of that was sent to the shareholders. But as you  
3 said, earlier today, they are still marketing CyberGuard TSP  
4 with zero-hour detection. Right? To this day?

5 A. It still appears on their website, is my  
6 understanding. They still haven't sold any.

7 Q. Okay.

8 Now, let's get back to your report. Talking  
9 about the fact that you are only as good as the information  
10 you rely on. I think that was my phrase.

11 You testified today that the proactive scanning  
12 feature is available for purchase. Correct?

13 A. I am sorry. In what context?

14 Q. The proactive scanning feature, WebWasher, is  
15 available in the CyberGuard TSP product. Correct?

16 A. That is my understanding. I thought that's what  
17 Mr. Gallagher said the other day.

18 Q. But it is your understanding today, sworn testimony  
19 today, your understanding is that it's available on the  
20 CyberGuard TSP product. Right?

21 A. No. My sworn testimony is that that is what I recall  
22 Mr. Gallagher saying. It's not an opinion I hold  
23 separately. It's just my best recollection of what he  
24 testified to.

25 Q. What is your opinion?

1 A. Yes, I goo.

2 Q. You said you -- a few minutes ago, you said you didn't  
3 have an opinion as to whether the WebWasher function was  
4 available in the CyberGuard TSP appliances. Correct?

5 A. That's correct.

6 Q. Why don't you read for the jury the second sentence,  
7 in Paragraph 15? This is your rebuttal expert report.  
8 Right?

9 A. "The WebWasher proactive scanning functionality has  
10 never been and is not available for purchase by customers on  
11 CyberGuard TSP appliances."

12 Q. What is right, Mr. Degen? You just told us you didn't  
13 have any idea, and in your expert report, you wrote that it  
14 has never and is not available for purchase. That's not  
15 what you are saying today, is it?

16 A. At the time I wrote my report, my understanding was  
17 that it was not available. I was aware it had never sold,  
18 and I understood it was not sold. I came to trial and I  
19 heard Mr. Gallagher testify that while it is technically  
20 available, they have discouraged the marketing of it and  
21 still have not sold it.

22 Q. Your rebuttal expert report, upon which your opinions  
23 are based, it's wrong. Correct? That statement is wrong?

24 A. That's my current understanding, yes.

25 Q. Your current understanding is your report is wrong.

1200

Degen - cross

1 A. I don't know one way or the other, other than what I  
2 heard him say in court.

3 Q. So you don't know separately whether the WebWasher  
4 proactive scanning function is available in the CyberGuard  
5 TSP product. Right?

6 A. That's correct.

7 Q. Okay. Let's look at your expert report, your rebuttal  
8 expert report.

9 Could you put the rebuttal expert report on the  
10 scene?

11 MR. SCHUTZ: That is not an exhibit, Your Honor.  
12 I would object to it.

13 MR. ROVNER: Your Honor, when Mr. Parr was on  
14 the stand, they showed him his report to show which  
15 documents he had reviewed and to refresh his recollection,  
16 on the screen, as to what document he had looked at and he  
17 said, Yes, it looks like I have seen that.

18 MR. SCHUTZ: That was after -- if he shows it to  
19 him and establishes it, then it can go up.

20 THE COURT: Why don't you show it to him.

21 BY MR. ROVNER:

22 Q. Could you turn to Page 7 of your rebuttal expert  
23 report?

24 A. Okay.

25 Q. Paragraph 15, do you see that?

1202

Degen - cross

1 So we are clear, on that topic, that sentence? Yes or no,  
2 Mr. Degen?

3 A. My understanding is that sentence is incorrect within  
4 my report.

5 Q. Isn't it that sentence that you based your -- you gave  
6 TSP, CyberGuard TSP a one-percent royalty rate based on a  
7 false conclusion. Correct?

8 A. In part. My understanding was it had never been sold  
9 and that understanding is still true.

10 Q. Okay. That's not what you said in this report. Never  
11 available, has never been available. Right?

12 A. No. What I said is --

13 Q. Read it again.

14 A. -- it has never and is not available for purchase by  
15 customers on CyberGuard TSP appliances.

16 THE COURT: Mr. Rovner, we don't need to beat  
17 the jury up with this point. You have made your point.

18 BY MR. ROVNER:

19 Q. One final question. Mr. Gallagher testified  
20 unambiguously that it is available for purchase on the  
21 CyberGuard TSP appliance. Right?

22 A. Again, that's my best recollection from sitting in  
23 court, but I wasn't taking notes.

24 Q. Your job was to get your facts right. You testified  
25 to that earlier today. Right?



Degen - cross

Degen - cross

1 A. That's correct.  
 2 Q. You talked to Mr. Gallagher in preparing your report,  
 3 didn't you?  
 4 A. That's correct.  
 5 Q. So why didn't you get it right in the report if you  
 6 talked to Mr. Gallagher, who testified one way, you wrote in  
 7 your report another thing. Why?  
 8 A. I did not talk to Mr. Gallagher about this particular  
 9 issue.  
 10 Q. Okay. Now, it helps Secure's case for some reason to  
 11 show that the CyberGuard TSP appliance -- strike that.  
 12 The WebWasher functionality not being available  
 13 on CyberGuard TSP, that helps your case. Right?  
 14 A. I don't have a case. What do you mean, helps my case?  
 15 Q. Your royalty rate is lower than Mr. Parr's. Right?  
 16 A. My opinion is, yes.  
 17 Q. Yes, what? Your royalty rate is lower than  
 18 Mr. Parr's?  
 19 A. Yes, that's correct.  
 20 Q. If it turns out that the CyberGuard TSP product  
 21 contains the WebWasher functionality, including its source  
 22 code and that is found to infringe, your opinion has nothing  
 23 to do with that. You said it wasn't available; wasn't  
 24 there. Correct?  
 25 A. No, I wouldn't agree with that. I don't think the

1 is on the device as part of the installation dump. But the  
 2 functionality is not available and has never been -- it's  
 3 never been functional, I guess that is my quibble, with the  
 4 word "functionality."  
 5 Q. It is available. I will show you Mr. Gallagher's if  
 6 you don't want to take my word for it. Would you like to  
 7 see that?  
 8 A. It is there but it has never been turned on --  
 9 Q. It's available, though?  
 10 A. If you pay --  
 11 THE COURT: He is agreeing with you, Mr. Rovner.  
 12 Gee, wiz.  
 13 BY MR. ROVNER:  
 14 Q. Where did you get your information that it was never  
 15 available that formed your expert report?  
 16 A. I don't recall specifically. Let me check my  
 17 footnotes here.  
 18 I cite a document there, and I don't know the  
 19 document control numbers by heart, so I can't say.  
 20 Q. They are Secure Computing documents, though. Right?  
 21 Produced by Secure Computing. That's why they have the "SC"  
 22 in front of it?  
 23 A. That's correct.  
 24 Q. Okay. On Friday, you mentioned a number of  
 25 Georgia-Pacific factors. Correct?

1204

Degen - cross

Degen - cross

1 fact -- what I heard Mr. Gallagher testify to changes my  
 2 opinion. While they have continued to nominally market it,  
 3 what I understood him to say is that they had actively  
 4 discouraged sales of it and that there had been no sales and  
 5 had I had that fact at the time I formed my opinion, I would  
 6 have reached the same opinion.  
 7 Q. Okay. Was that fact available to you when you wrote  
 8 your report?  
 9 A. I did not see it in any of the documents. I could  
 10 have asked Mr. Gallagher. I didn't realize it was something  
 11 that was in dispute.  
 12 I thought I had it right.  
 13 Certainly, I have the part right about it not  
 14 being sold. That is really the most important thing.  
 15 The difference between not selling it and  
 16 actively discouraging selling it both result in not selling  
 17 it.  
 18 What I can say is none of the CyberGuard TSP  
 19 appliance sales were a direct result of the use of the '194  
 20 patent.  
 21 Q. But the functionality, let's make no mistake about it,  
 22 WebWasher functionality is present in that TSP product, as a  
 23 best you understand. Is that correct?  
 24 A. I wouldn't necessarily agree with the word  
 25 "functionality." My understanding is that the source code

1 A. That's correct.  
 2 Q. You didn't mention them all, though, did you?  
 3 A. I did not.  
 4 Q. Now, your -- one of the ones you did discuss briefly,  
 5 No. 5 is, you talked about -- just show Slide G-102, please.  
 6 "The commercial relationship between the  
 7 licensor and the licensee," No. 5, you touched upon that.  
 8 Right?  
 9 A. That's correct.  
 10 Q. And you said that, and correct me if I am wrong --  
 11 that there was some limited competition but they really  
 12 weren't in the same league. Is that correct?  
 13 A. That's correct. I don't know if I used the word "same  
 14 league." What I said is my understanding is that there was  
 15 very limited evidence that in the absence of Secure's  
 16 accused product -- in other words, if Secure had been  
 17 selling its product without the proactive scanning feature,  
 18 there was very limited evidence that, absent that, Finjan  
 19 would have made the sale.  
 20 Some of that evidence was the fact that  
 21 Mr. Gallagher's testimony that he rarely saw Finjan as the  
 22 final competitor, I think Nimrod Vered from Finjan testified  
 23 that they really didn't have the length or breadth to  
 24 compete with the Fortune 500 firm.  
 25 I think Dan Frommer from Finjan testified in

1206

Degen - cross

1 A. I believe in his report, he cites a range of 93 to 99  
 2 and cited Jill Putman's testimony for the 99 number, yes.  
 3 Q. So it was right there in his report. Jill Putman  
 4 deposition, Page 74, 99 percent gross profit margin for  
 5 software. Right?  
 6 A. Correct.  
 7 Q. And you wrote your rebuttal expert report after that.  
 8 Correct?  
 9 A. That's correct.  
 10 Q. Why didn't you call Ms. Putman before you wrote your  
 11 rebuttal expert report and say, Mr. Parr is citing this  
 12 crazy 99 percent number, what's the truth here? Why didn't  
 13 you call her then?  
 14 A. Because I had the truth. I had the WebWasher, the  
 15 Secure and CyberGuard documents that were specific to the  
 16 WebWasher products and the documents clearly showed me what  
 17 the operating profit was, what the gross margins were.  
 18 Also, in her deposition, the question was not,  
 19 What is the gross margin for WebWasher? She simply cited  
 20 the 99 percent with respect to trying to explain why the  
 21 CyberGuard financials looked better than the -- why the  
 22 Secure financials looked better than CyberGuard.  
 23 Q. So at the time you wrote your expert report, you  
 24 thought you had an answer, right, to Mr. Parr's reference to  
 25 Ms. Putman's deposition. Right?

1220

Degen - cross

1 A. I am sorry.  
 2 Q. When you wrote your rebuttal expert report, you  
 3 considered Mr. Parr's reference to Ms. Putman's deposition.  
 4 Correct?  
 5 A. Yes.  
 6 Q. Never bothered to call Ms. Putman before you wrote  
 7 your report because you thought you knew the answer. You  
 8 said you relied on the correct information?  
 9 A. Well, I had the documents that were kept in the normal  
 10 course of business. Also, I read Ms. Putman's deposition  
 11 and she was not opining as to the gross profit margin for  
 12 WebWasher. So there wasn't even a conflict.  
 13 Q. Yet, you felt last week that you should call her.  
 14 Correct? Nothing had changed. Right?  
 15 A. Nothing had changed.  
 16 Q. But last week, you decided to call her, yet, before  
 17 the expert report, with the same information, you didn't  
 18 bother to check with her. Right?  
 19 A. That's correct.  
 20 Q. Nothing -- go ahead, sorry.  
 21 A. In general, when I am reviewing documents, if I had  
 22 actual financial statements, I will rely on those over  
 23 deposition testimony and e-mails. My primary source, what I  
 24 like to use the most is the documents that are kept in the  
 25 normal course of business. And they were available to me.

Degen - cross

1 So that's what I used.  
 2 Q. So when Ms. Putman said in her deposition, this is at  
 3 Page 74, the question was, "Why is a lower gross margin  
 4 predicted for CyberGuard"? Her answer was, "A larger  
 5 portion of the CyberGuard business has a hardware component  
 6 attached to it which carries a great deal of cost. In  
 7 contrast, a larger portion of the Secure Computing revenue  
 8 carries no hardware components and in fact runs at 99  
 9 percent margins."  
 10 I read that correctly, right? As far as you  
 11 know? And I could give you her deposition if you would like  
 12 to check.  
 13 A. That is consistent with my recollection.  
 14 Q. The 99 percent margins for software, at least  
 15 according to Ms. Putman, the director of finance, are a lot  
 16 higher than the hardware margins. Right?  
 17 A. When I talked to Ms. Putman, she explained --  
 18 Q. I am not asking about the conversation.  
 19 MR. SCHUTZ: Your Honor. I think it's fair to  
 20 allow the witness to --  
 21 THE COURT: Can you answer yes or no?  
 22 THE WITNESS: If he asks it again.  
 23 BY MR. ROVNER:  
 24 Q. I am only asking about her deposition testimony.  
 25 THE COURT: Rephrase or re-put the question,

1222

Degen - cross

1 please.  
 2 BY MR. ROVNER:  
 3 Q. When Ms. Putman wrote that the software margins are  
 4 higher, the gross profit margins for software are 99  
 5 percent, that's higher than the margins for hardware.  
 6 Correct?  
 7 A. That's what she said for all of Secure's software.  
 8 Q. And your point is that she didn't specify WebWasher  
 9 software. Right?  
 10 A. Well, she didn't specify it and I don't think that's  
 11 what she had in mind.  
 12 Q. As a general notion, software is less expensive to  
 13 make than a hardware appliance. Right?  
 14 A. That's been my experience, yes.  
 15 Q. So your testimony a few minutes ago was that when you  
 16 had the information, the hard facts, the documents, you  
 17 didn't rely on deposition testimony. Right?  
 18 A. With respect to financial information, absolutely.  
 19 Q. Does financial information also include where sales  
 20 were made, whether they are U.S. sales, non-U.S. sales,  
 21 things like that?  
 22 A. Yes.  
 23 Q. Now, part of your royalty base deals with U.S. sales  
 24 or non-U.S. sales. Mr. Parr includes all sales. You  
 25 exclude them because you say that they involved non-U.S.

# **EXHIBIT 1**

## **PART 4**

Degen - cross

Degen - cross

1 sales. Correct?

2 A. Yes and no. I exclude the non-U.S. sales through 2005

3 during which time I understand that sales outside the U.S.

4 were made and fulfilled outside the U.S.

5 Q. And that's for CyberGuard. Correct? That's a

6 CyberGuard time frame?

7 A. Right. That would be during CyberGuard's ownership of

8 WebWasher.

9 Q. What is your evidence to support that?

10 A. I don't know off the top of my head. I may have cited

11 some in my report. Do you want me to look?

12 Q. Let's look at the report. Why don't we look at your

13 response expert report at Paragraph 13.

14 A. Yes.

15 Q. Paragraph 13, your response report: Prior to Secure

16 Computing Corporation's acquisition of CyberGuard in 2006, I

17 understand that non-U.S. sales were completely manufactured,

18 sold and serviced outside the U.S.

19 Do you see that?

20 A. Yes, I do.

21 Q. And the source for that statement is Footnote 12, it

22 says, For example, see the deposition of Jill Putman.

23 Right?

24 A. That's correct.

25 Q. So Secure's director of finance gave you that

1 A. Yes.

2 Q. So in 1999, your position at Secure Computing changed.

3 Can you tell me what your new position was?

4 "Answer: Director of finance."

5 Does that help you remember whether Ms. Putman

6 was ever a CyberGuard employee?

7 A. It does not.

8 Q. So you think she could be?

9 A. Well, she could have been before 1999.

10 Q. I was trying to make this a little quicker. Why don't

11 we go to Page 21.

12 Question, on line ten, So you have been at

13 Secure Computing for ten years?

14 "Answer: Yes."

15 We can certainly establish that Ms. Putman was

16 not an employee of CyberGuard during the time that the

17 alleged sales were taking place. Right?

18 A. That appears to be the case, yes.

19 Q. In talking about -- strike that.

20 So, for your conclusion that CyberGuard's

21 non-U.S. sales were completely manufactured, sold, and

22 serviced outside the U.S. comes from Ms. Putman. Right?

23 A. I think I had other background, maybe it was from

24 counsel, too, that there would be other testimony.

25 Mr. Gallagher testified that he was part -- he

1224

Degen - cross

1 information. Right?

2 A. Well, I read her deposition.

3 Q. Okay. And in the deposition, it says just that.

4 Right?

5 A. That's -- I think it says something close to that.

6 The sentence doesn't quote her deposition directly. But it

7 summarizes what I understood from reading her deposition.

8 Q. Now, tell me, and tell the jury, more importantly,

9 when did -- this is CyberGuard information. Right?

10 CyberGuard sales. Correct?

11 A. Correct.

12 Q. When did Ms. Putman work for CyberGuard?

13 A. I don't know that she did.

14 Q. Isn't it a fact that she never worked for CyberGuard

15 and was merely a Secure Computing employee at the time you

16 are alleging that CyberGuard did not have any U.S. sales?

17 A. I don't know either way.

18 Q. Let me give you a copy of Ms. Putman's deposition.

19 MR. ROVNER: May I approach?

20 THE COURT: Yes.

21 BY MR. ROVNER:

22 Q. That's the deposition you relied on. Right?

23 A. Yes.

24 Q. Could you turn to Page 22 of her deposition. Line 15.

25 Do you see that?

1226

Degen - cross

1 was aware of the effort to bring those foreign fulfillment

2 services in house.

3 So I don't recall that I had talked about him

4 ahead of time. When I cite her, I say, "For example."

5 Q. But you don't have any other examples?

6 A. I don't.

7 Q. Mr. Gallagher, too, was a Secure Computing employee

8 only. He never worked a day for CyberGuard, did he?

9 A. No. But he would have been part of the transition

10 when they bought CyberGuard and would have been aware that

11 they had to move fulfillment from Paderbon, Germany, into

12 the U.S. That is the point at which the fulfillment began

13 in the U.S. So even though neither one of them were

14 CyberGuard officials, in the purchase of CyberGuard, they

15 would have had to take over those functions, such as

16 fulfillment, and bring them into the U.S.

17 So they would at least be knowledgeable about

18 the fact that, at the time of the purchase, the fulfillment

19 was outside the U.S.

20 Q. You are saying Ms. Putman and Mr. Gallagher, Secure

21 employees during the entire time that CyberGuard was selling

22 WebWasher, would have known whether sales were made out of

23 CyberGuard's California office or Florida office? They

24 would have known that?

25 A. Sales to where?



Degen - cross

Degen - cross

1 Q. Sales to any part of the world. Are you aware of  
 2 that? They had sales offices in California and Florida?  
 3 This is CyberGuard we are talking about.  
 4 A. I was aware of that.  
 5 Q. And your testimony is that Mr. Gallagher and  
 6 Ms. Putman, Secure employees at the time, are competent to  
 7 inform you as to what CyberGuard's sales model was before  
 8 Secure acquired it?  
 9 A. I think it's fair to say that Secure didn't change  
 10 their sales model the day before the purchase. So certainly  
 11 the people who bought Secure would have known at the time --  
 12 sorry, as Secure bought WebWasher, Secure would have known  
 13 how sales were being made and fulfilled as they transitioned  
 14 them into their own company. In fact, they did move sales  
 15 fulfillment into the United States.  
 16 Q. So you say that Ms. Putman, for example, would have  
 17 been competent to discuss the CyberGuard sales model?  
 18 A. Well, what I know is that they told me that the sales  
 19 were not fulfilled -- that sales outside of the U.S. were  
 20 fulfilled, made, and fulfilled outside the U.S.  
 21 Q. And Ms. Putman, you relied on Ms. Putman, that is the  
 22 deposition cite. Right?  
 23 A. That's correct.  
 24 Q. So she could testify, in your opinion, about the  
 25 CyberGuard sales model?

1 A. That's correct.  
 2 Q. And Mr. Parr, to establish profit margins, said that  
 3 he took out, he reversed some research and development  
 4 costs. Correct?  
 5 A. Correct. He took out 80 percent of the R&D costs.  
 6 Q. Because, you may disagree with him, but his premise  
 7 was that you want to get to the specific products at issue,  
 8 the accused products, to find out what the margins are for  
 9 them. Right?  
 10 A. That's what he said, yes.  
 11 Q. That's what he said.  
 12 So he took out research and development based on  
 13 his opinion that not all the research and development that's  
 14 listed in the financials went to the specific WebWasher  
 15 product. Right?  
 16 A. That's my understanding, yes.  
 17 Q. Now, you have a line here to determine, this is your  
 18 operating profitability for both CyberGuard and Secure. And  
 19 you have got research and development here. Correct?  
 20 A. That's correct.  
 21 Q. And that's company-wide, right? Consolidated?  
 22 A. Well, my understanding is this is WebWasher's share.  
 23 But these are from financial statements that are labeled  
 24 WebWasher Product. So these are CyberGuard and Secure's  
 25 allocations of R&D to the WebWasher products.

1228

Degen - cross

1 A. I don't know what her basis was for her testimony.  
 2 But I was relying on her testimony.  
 3 Q. Okay. Why don't you turn to Page 44 of Ms. Putman's  
 4 deposition, the same deposition that you relied on.  
 5 Page 44, Line 16: Are you familiar with the  
 6 sales model as you defined it earlier in the deposition used  
 7 by CyberGuard to sell the WebWasher product prior to the  
 8 acquisition by Secure Computing?  
 9 "Answer: No."  
 10 That's the same Ms. Putman you relied on.  
 11 Right?  
 12 A. That's correct.  
 13 Q. Do you recognize this board, Mr. Degen? Figure 5. I  
 14 think you used it on Friday?  
 15 A. I think so. I can barely see it.  
 16 Q. Could you see it Friday? Were you able to see it on  
 17 Friday?  
 18 A. I can see it now. It was obscured. I can't read the  
 19 numbers on it from here. I have got a copy.  
 20 Q. Can you see that any better, Mr. Degen?  
 21 A. I have a copy in front of me.  
 22 Q. Okay. You discussed this on Friday. Right?  
 23 A. That's correct.  
 24 Q. And one of the discrepancies that you and Mr. Parr  
 25 have is on profit margins. Correct?

1230

Degen - cross

1 Q. And R&D, you are the math major, for CyberGuard, what  
 2 are you attributing research and development -- you have it  
 3 here, Total, \$1.4 million. Right?  
 4 A. That's the total for R&D for CyberGuard for the  
 5 quarters shown, yes.  
 6 Q. So if you had lower R&D, your profit margin would go  
 7 up. Is that correct?  
 8 A. That's correct.  
 9 Q. That's what Mr. Parr did. He took out some R&D and  
 10 his profit margin went up. Right?  
 11 A. That's correct.  
 12 Q. The same thing with Secure Computing, you have  
 13 research and development of 3.5 million?  
 14 A. That is the total over the six quarters shown, yes.  
 15 Q. That serves to lower operating margin. Right?  
 16 A. R&D is a deduction that lowers operating margin, yes.  
 17 Q. Mr. Parr tried to get at the specific product, what  
 18 the research and development was for the WebWasher product.  
 19 Right?  
 20 A. That's what he says he was trying to do, yes.  
 21 Q. WebWasher was not developed by CyberGuard or Secure  
 22 Computing. Right?  
 23 A. That's correct.  
 24 Q. It was developed by WebWasher?  
 25 A. Correct.

Degen - cross

Degen - cross

1 Q. In addition to the royalty base, you talked about the  
 2 royalty rate. And we are talking about the hypothetical  
 3 negotiation. Isn't it true that you can also consider not  
 4 only profitability but trends, whether someone predicted  
 5 that maybe they weren't making a lot of money on the day of  
 6 the hypothetical negotiation; but they may have projected  
 7 that they would make money. Correct? Is that something you  
 8 would take into account?  
 9 A. Absent evidence regarding expectation at the time --  
 10 if there were evidence that it were expected at the time, I  
 11 would consider it, yes.  
 12 Q. Could you turn to PTX-135. Do you recognize this  
 13 exhibit, PTX-135? "CyberGuard Revenue Projections"?  
 14 A. Yes, I do.  
 15 Q. Do you see "CyberGuard Firewall" here and "Classic"  
 16 and "TSP"?  
 17 A. Yes.  
 18 Q. What can you tell us about the projections at least at  
 19 the time, Secure --- CyberGuard's projections?  
 20 A. Do you want me to read them?  
 21 Q. No. If you could summarize this line (indicating).  
 22 A. The first year is 8.4 million, and the last year,  
 23 which is 2010, is 16.2 million.  
 24 Q. Okay. Does that show you anything?  
 25 A. It shows an increasing sales trend.

1248

Degen - cross

1 Q. Almost double. Right?  
 2 A. Yes.  
 3 Q. Is that something you would take into account at the  
 4 time of the hypothetical negotiation?  
 5 A. Not in determining a rate, because the rate applies to  
 6 the revenues, and the revenues are what they are.  
 7 So if sales go up, then the total royalty goes  
 8 up, because the base increases. But, you know, in general,  
 9 in terms of negotiating a license. But in this particular  
 10 instance, we have the revenues during the infringing period  
 11 and I would focus on those.  
 12 Q. Now, turning to Secure's patents. We talked about the  
 13 two of them. Right?  
 14 A. Correct.  
 15 Q. You believe that two percent was appropriate. Is that  
 16 correct?  
 17 A. That's correct.  
 18 Q. On the first day of the trial, Mr. Schutz mentioned  
 19 that the patents were brought into this case because Finjan  
 20 brought a lawsuit and they are fighting back by bringing  
 21 these, their two patents into the lawsuit. Are you aware of  
 22 that?  
 23 A. No. I wasn't here for the first day.  
 24 Q. Well, if that's the case, that these patents were  
 25 brought into the case in retaliation for Finjan bringing its

1 three patents into suit, is that a Georgia-Pacific factor?  
 2 A. No.  
 3 Q. Do you know when Secure -- do you know when Finjan  
 4 received notice of the two patents-in-suit?  
 5 A. I do not.  
 6 Q. Do you know that it was at the time that the two  
 7 patents were brought into this litigation?  
 8 A. I told you I didn't know.  
 9 Q. Your royalty base for the two Secure patents deals  
 10 with -- talks about years prior to the bringing of this  
 11 lawsuit. Right?  
 12 A. That's correct, for one of the products -- do you want  
 13 me to just double-check it?  
 14 Q. Sure.  
 15 A. For the '010 patent I calculate damages beginning in  
 16 2003. And for the '361 patent, I begin calculating damages  
 17 in quarter one of '07, I think when the patent issued.  
 18 Q. And the '010 damages only goes to 2004; correct?  
 19 Because Finjan was not selling that product after 2004.  
 20 Right?  
 21 A. That's correct.  
 22 Q. You have got a two-percent rate for the Secure  
 23 patents, and a four-percent rate for the Finjan patents with  
 24 your other qualifiers. Correct?  
 25 A. Yes. Basically, I am saying two percent for Finjan's,

1250

Degen - redirect

1 and the two -- the '780 and the '822. But if the '194 is in  
 2 play for Finjan, then four percent collectively for the  
 3 total.  
 4 Q. In identifying the Secure patents, they are not, to  
 5 use your words, they are not anything involving the next  
 6 frontier, are they?  
 7 A. No.  
 8 MR. ROVNER: No further questions, Your Honor.  
 9 THE COURT: All right. Mr. Schutz.  
 10 MR. SCHUTZ: Thank you, Your Honor.  
 11 REDIRECT EXAMINATION  
 12 BY MR. SCHUTZ:  
 13 Q. Mr. Degen, let's start out with the purchase price for  
 14 CyberGuard, which was something around \$300 million. Do you  
 15 recall that?  
 16 A. Yes, I do.  
 17 Q. Was CyberGuard an existing entity at the time?  
 18 A. Yes.  
 19 Q. Did it have employees?  
 20 A. Yes.  
 21 Q. Did it have physical facilities?  
 22 A. Yes, it did.  
 23 Q. Did it have active customers?  
 24 A. Yes.  
 25 Q. And in valuing a company in terms of purchasing it and

Heberlein - direct

## DIRECT EXAMINATION

1  
2 BY MR. ANDRE:  
3 Q. Good afternoon, Mr. Heberlein.  
4 A. Good afternoon.  
5 Q. Would you please tell us where you are currently  
6 employed?  
7 A. I am currently employed at NetSquare, Inc., which is  
8 basically my own business. It is in Davis, California.  
9 Q. What is NetSquare, Inc.? What do you do?  
10 A. NetSquare, Inc. does research and development to  
11 computer security. I worked out of the university for about  
12 eight years doing research and development for Secure  
13 Computing and basically spun off my own business doing  
14 exactly the same thing.  
15 Q. Would you please give us a brief rundown of your  
16 educational background?  
17 A. Yes. I received a Bachelor of Science in computer  
18 science and math from the University of California at Davis  
19 in 1988. And I received a Master's degree in computer  
20 science with a specialty in computer security, in  
21 particular, intrusion detection, in 1991, also from the  
22 University of California at Davis.  
23 Q. And what did you do after you received degrees in the  
24 computer security area?  
25 A. Well, when I finished my Bachelor's of science in

1272

Heberlein - direct

1 1988, I worked for a year as a post-graduate researcher at  
2 UC Davis doing computer security work. We started the  
3 network security monitor, which is a network-based intrusion  
4 detection system.  
5 After a year of working there as an employee, I  
6 went back and was a graduate student for another two years  
7 when I did my Master's. I finished that in 1991. And I  
8 returned to postgraduate researcher status until 1996, at  
9 which point, I left and started my own company.  
10 Q. So, from the 1991 to 1996 period when you were doing  
11 this postgraduate research at UC Davis, what kind of work  
12 were you doing?  
13 A. We were doing a variety of computer security  
14 technologies. We were doing, by and large, intrusion  
15 detection systems. We developed network-based monitors.  
16 And we integrated network-based monitors into host-based  
17 monitors to create large architectures of intrusion  
18 detection systems. The software was deployed at a number of  
19 different sites across the world.  
20 Q. When you are talking about intrusion detectors, you  
21 are talking about hackers?  
22 A. It can be a wide variety of things. It can be  
23 hackers, it can be malicious code, such as viruses or worms.  
24 It can be insiders within the corporation. Our customers  
25 typically are military people, they are always concerned

Heberlein - direct

1 about insiders.  
2 They had great concerns about just about  
3 everybody.  
4 Q. Do you still do work with the military and that kind  
5 of stuff in today's work?  
6 A. I still do work with the military intelligence  
7 communities, yes.  
8 Q. Have you published any papers regarding computer  
9 security?  
10 A. Yes. I published about a dozen papers.  
11 Q. And over what time period was that?  
12 A. That was primarily my time at University of  
13 California, Davis. I started my own company, since I don't  
14 get brownie points for publishing papers and a lot of our  
15 customers are very sensitive about the research we do for  
16 them, we tend not to publish that information.  
17 Q. What type of computer security projects have you done  
18 in the past?  
19 A. Well, we did the network security monitor, which was  
20 the first network-based intrusion detection system. And  
21 that became part of a system called ASIM, which is the  
22 Automated System Information Management System that the Air  
23 Force deployed worldwide. So this software was deployed at  
24 over 100 Air Force sites globally. The Defense Information  
25 Systems Agency, which has responsibility for protecting the

1274

Heberlein - direct

1 information infrastructure of the overall DOD, also took the  
2 same software that I had done for my Master's degree and  
3 renamed it JIDS, for Joint Intrusion Detection System, and  
4 deployed that within their organization. The Lawrence  
5 Livermore National Laboratory, also known as LLNL, is a  
6 nuclear weapons lab based in California. Part of the  
7 Department of Energy.  
8 And they also took the software and it was --  
9 they called it NIDS, for Network Intrusion Detection System.  
10 They distribute it within the Department of Energy.  
11 That was primarily the NSM. We also took the  
12 NSM and incorporated it into a system called DIDS, which  
13 stood for Distributed Intrusion Detection System, which was  
14 an effort that the Air Force used to try and integrate host  
15 and network-based monitoring.  
16 That was deployed at a number of sites, although  
17 I am not particularly privy to which sites they actually  
18 deployed that. We also did vulnerability analysis where we  
19 would look at different types of attacks and try and  
20 understand the fundamentals of those attacks so we could  
21 build security systems that would address variations of the  
22 particular attack.  
23 Q. That is a pretty good example of what you have done  
24 here.  
25 MR. ANDRE: At this time, Your Honor, I would

Heberlein - direct

Heberlein - direct

1 like to tender Mr. Heberlein as an expert in computer  
2 security.

3 THE COURT: Any objection?

4 MR. HOLDREITH: No objection, Your Honor.

5 THE COURT: Mr. Heberlein is accepted as an  
6 expert in computer security.

7 BY MR. ANDRE:

8 Q. Mr. Heberlein, you have been retained by Finjan in  
9 this case. Is that correct?

10 A. That's correct.

11 Q. You were asked to give an opinion. Is that correct?

12 A. That is correct.

13 Q. And what exactly was your assignment from Finjan in  
14 this case?

15 A. Well, actually, I produced two different documents.  
16 The first document was sort of an overall analysis of the  
17 technology in the market and how these technologies are  
18 deployed in the systems and why the technologies are  
19 important.

20 The second document was a rebuttal to  
21 Dr. Wallach's argument that the patents were invalid. So  
22 that was my analysis of his arguments.

23 Q. And what did you conclude regarding Dr. Wallach's  
24 opinion that the patents were invalid?

25 A. I disagreed with his opinion.

1 A. I used the claim interpretation that was provided by  
2 the Court, that is correct.

3 Q. Before you provided this opinion, did you have any  
4 opinion one way or the other about the Finjan patents?

5 A. No, I did not have any opinion about the patents  
6 beforehand.

7 Q. Did you get a chance to read the trial testimony of  
8 Dr. Wallach that was here last week?

9 A. Yes, I read the trial testimony. It was a little  
10 frustrating.

11 Q. Why is that?

12 A. Once again, as sort of my responsibility, it is to  
13 rebut the arguments that they make. And, once again, for  
14 them to claim that a patent is invalid, they have to go  
15 through each of those limitations, they have to say, If a  
16 claim has three parts, A, B, and C, they have to prove that  
17 all components, A, and B, and C, were anticipated by the  
18 prior art, for example.

19 And when they provided his evidence, they would  
20 put up a chart and it says, Well, was this limitation, you  
21 know, taken care of by the prior art? Yes, it was. And he  
22 would just put a checkmark.

23 For example, he would say, The URL filter was in  
24 the fire tool kit, but wouldn't provide any evidence of the  
25 fact that it was in the tool kit. So it is very difficult

1276

Heberlein - direct

Heberlein - direct

1278

1 Q. And what did you rely upon on coming to your  
2 conclusions that the patents in this case, the Finjan  
3 patents, were valid?

4 A. Well, there is a number of pieces of information. One  
5 is certainly instructions from the attorneys that says that  
6 for a patent or a claim in a patent to be rendered invalid,  
7 that the evidence that the other side must cite must clearly  
8 identify each and every single limitation within that claim.  
9 So they gave me certain instructions such as that.

10 There was the documents that they provided as  
11 prior art. So I reviewed all those prior arts.

12 I reviewed the argument, itself, that he made.  
13 And my own experience from about 20 years in computer  
14 security.

15 Q. Did you rely on the Court's claim interpretation?

16 A. Yes, I did.

17 Q. Did you read the patents and the prosecution history  
18 of those patents?

19 A. Yes, I read the patents and the prosecution history.

20 Q. And did you review Dr. Wallach's, his report and those  
21 references cited in his report?

22 A. I reviewed his report and the references that he  
23 cited, that's correct.

24 Q. When you gave your opinion, did you use the claim  
25 interpretation that was provided by the Court?

1 for me, as an expert, to rebut nonexistent evidence. And I  
2 found that frustrating.

3 Q. Let's talk about some of the references that  
4 Dr. Wallach relied upon. We will start with the '194  
5 patent. We will take these in more or less the same order  
6 that Dr. Wallach talked about them. If we go to DTX-1019,  
7 this was referred to as the Ji '95 patent earlier in this  
8 case.

9 Do you recognize this document?

10 A. Yes.

11 Q. Do you have an understanding of what this document is  
12 disclosing?

13 A. This document is basically a firewall that has a  
14 standard virus detection system attached to it.

15 Q. So when you talk about a "standard virus detection,"  
16 are you talking about the signature-based virus protection  
17 that has been known for years?

18 A. That is correct.

19 Q. Was this reference considered by the United States  
20 Patent and Trademark Office during the prosecution of the  
21 '194 patent?

22 A. Yes. The Patent Office -- the person who examines the  
23 patents and determines whether the patents should be awarded  
24 had already looked at this particular document, and said,  
25 No, the '194 patent is still fine.



Heberlein - direct

Heberlein - direct

1 Q. If you go to JTX-1, you go to that list of the patents  
2 that were cited right here, this Ji patent here, 5,623,600,  
3 that is the Ji '95 that we were talking about. Is that  
4 correct?

5 A. That's correct.

6 Q. And did the fact that the Patent and Trademark Office  
7 looked at this patent during the prosecution of the '194,  
8 did that have any effect on your opinion?

9 A. Certainly, the assumption is that the patent is  
10 invalid if the Patent Office awarded it. Although, when I  
11 did my analysis, I also did the analysis that, you know,  
12 Suppose it wasn't the case? I would give the benefit of the  
13 doubt to Secure Computing as much as possible.

14 Q. Let's go back to JTX- -- DTX-1019, the Ji patent.

15 Now, this patent here, does it cover proactive  
16 scanning?

17 A. No, it does not.

18 Q. When you say "firewall," we heard a lot of talk about  
19 firewalls here. What exactly is a firewall?

20 A. There is sort of a split between two different  
21 technologies that people put at their borders at their cite.  
22 One is what people typically call the firewall these days,  
23 which is a packet filtering firewall. So the packet comes  
24 in, it gets analyzed, they determine whether the packet  
25 should go through into the organization, and if so, let it

1 move a document or program from some remote machine to  
2 another machine, it takes that document or that program and  
3 breaks it up into little packets and those little packets go  
4 across the network.

5 In a filtering firewall, once again, each packet  
6 comes in and it makes a determination of whether to let it  
7 go through and lets it through. Whereas, in a gateway, all  
8 the packets come to the gateway, so it can basically  
9 reassemble the program or reassemble the image or reassemble  
10 whatever it is you are transferring, do the analysis on it,  
11 and then allow that particular object through, if it thinks  
12 it is okay, or it drops the whole object if it thinks it is  
13 suspicious.

14 Q. I want to show you a demonstrative that we put  
15 together as G-124. Is this an accurate depiction between a  
16 firewall and application gateway as disclosed in the '194  
17 patent or a cartoon character?

18 A. It's relatively simple. But, once again, at the top  
19 level, the idea is that the packet comes in from the left,  
20 it gets to the firewall, makes a determination, if it allows  
21 it through, the packet goes through.

22 So, you know, the same packet basically appears  
23 on both sides of the network.

24 In an application gateway, once again, the  
25 packets come in. It could be a whole bunch of different

1280

Heberlein - direct

Heberlein - direct

1 go.

2 That is typically the way a firewall is talked  
3 about today, the way a firewall is sold today.

4 Q. Stop there a second. You say packeting, packet  
5 filtering. That is a new term for us here.

6 What exactly is packet filtering?

7 A. Okay. So a packet comes into the firewall and the  
8 firewall acts as a filter. And it says whether, you know,  
9 basically, to allow this to go through, to allow the packet  
10 to filter through the firewall or whether to drop it.

11 For example, if you have a packet firewall,  
12 filtering firewall, and a packet comes in destined to, say,  
13 one of your computers for a web server, and your web server  
14 isn't supposed to be available to the outside world and the  
15 firewall is configured just to drop the packet, it just  
16 doesn't even let it through, so that is the idea that  
17 filtering firewall, the packet comes in, it looks at that  
18 individual packet, decides whether to sort of throw it into  
19 the organization or just drop it on the floor.

20 Q. Is that different than -- we had WebWasher product  
21 over here earlier. Is that different than a gateway  
22 appliance?

23 A. Correct. The gateway appliances that are becoming  
24 more popular today basically take a whole piece of  
25 information, a whole document or whole program. When you

1 packets, depending on the size of the packets. They all  
2 arrive at the gateway. And the gateway reconstructs it. So  
3 you have to take all these little packets, reconstruct the  
4 original object. It will analyze the object and create new  
5 packets and those new packets are transmitted across the  
6 network. And that's what those purple or pink, whatever  
7 those are, those are new packets. They aren't the original  
8 packets that came in. There are also different packets.  
9 The original idea is that original packets are lost in the  
10 gateway.

11 Q. In going back to DTX-1019, you say the Ji patent  
12 involved this patent filtering system?

13 A. The Ji system, the Ji '95, I believe, was -- let me  
14 check on that. The Ji '95, although they use the word  
15 "firewall" here, they were talking about a gateway type  
16 system.

17 Q. Let me ask you about the Ji on Column 7, you also  
18 mentioned this, on Column 7, line 59, right here, this  
19 paragraph here, where it was talking about Ji, it says, This  
20 is preferably done by invoking a virus checking program on  
21 the temporarily stored file. For example, a program that  
22 performs a version of signature scanning.

23 Is that what you are talking about when you are  
24 talking about Ji doing the traditional signature scanning?

25 A. Correct.

1282

Heberlein - direct

Heberlein - direct

1 Q. Let's go to one of the other references that  
 2 Dr. Wallach relied upon, which is DTX-1264. This is  
 3 referred to as the Lo '64?  
 4 A. Lo '64? Lo '94.  
 5 Q. Lo '94, sorry. Are you familiar with this document?  
 6 A. Yes, I am.  
 7 Q. How are you familiar with this document?  
 8 A. A number of ways. One is, this particular work was  
 9 done at UC Davis in the computer security lab, when I was  
 10 working at the computer security lab.  
 11 Q. Could you go to the section right here?  
 12 A. I knew all the authors. I knew Ramond. Carl Levitt  
 13 was my thesis advisor. Ron Olsson was another faculty  
 14 member that I worked with.  
 15 Q. The first question about this, this has a date of May  
 16 4, 1994. Do you see that?  
 17 A. Yes.  
 18 Q. Do you know if this document was actually published on  
 19 that date?  
 20 A. I have no idea supporting the fact that that document  
 21 was published at that date. When they -- when Secure  
 22 Computing provided this particular document as prior art,  
 23 they referenced a web server. And they said, Oh, someone  
 24 could have downloaded it from this web server, but that web  
 25 server didn't actually exist at the time the prior art

1 through or not. So it requires human interaction. So every  
 2 time something goes on, the human must take a step to make a  
 3 response.  
 4 The next statement says, For systems running  
 5 without attention. So if you want to put this out, you  
 6 know, and let it run in an automated fashion, this approach  
 7 just isn't a viable approach. That's what they said.  
 8 Q. Is this saying that you have to have -- this should  
 9 not be used with the gateway and used to run independently  
 10 without having a human there to check it every time?  
 11 A. That's correct.  
 12 Q. Let me show a few more sites to provide this jury what  
 13 we are talking about. If you go to Page 7. This paragraph  
 14 under Bullet Point 5, it talks about, The analyst will need  
 15 to locate the privilege-granting setup, system call and then  
 16 slice for the authentication code. Do you see that?  
 17 A. Yes.  
 18 Q. What is that referring to?  
 19 A. Once again, the tool helps identify some pieces of  
 20 evidence. But then it relies on the analyst to continue to  
 21 pursue information on the system. So the analyst still  
 22 needs to do additional work. That is basically what these  
 23 statements are saying, The person has to do more work.  
 24 Q. Let me show you one more site along those lines, Page  
 25 13.

1284

Heberlein - direct

1 needed to be available. I have no idea whether this was  
 2 publicly available or not.  
 3 Q. And what exactly is the Lo '94 reference actually  
 4 describing?  
 5 A. The Lo '94 document looks at a tool that a security  
 6 analyst uses to analyze a piece of code. If I may going to,  
 7 for example, install some new software on my machine and I  
 8 might want analyze it first, I start up this tool, and I  
 9 will sit there and use that tool to help me analyze the code  
 10 to determine whether I think it's okay or not to install on  
 11 my system. The tool provides feedback, helps me do my  
 12 analysis as a person, and if I think it is okay, then I can  
 13 install it in my system.  
 14 Q. Let's just show some sites that support what you are  
 15 talking about. Page 4. On this particular paragraph, under  
 16 "Related Work," right here, it talks about third, When a  
 17 run-time tool identifies a problem, it either stops the  
 18 malicious program or asks for human attention. For systems  
 19 running without attention, run-time approaches are simply  
 20 not viable.  
 21 Could you explain what that is referring to?  
 22 A. Okay. There are some systems that would run, and if  
 23 they think you are accessing a file that maybe the program  
 24 shouldn't but we are not entirely sure, we will put a window  
 25 for the user and the user determines whether it should go

1286

Heberlein - direct

1 If you look at this paragraph right here -- the  
 2 paragraph below that, I am sorry -- the last line, About 100  
 3 lines of C statements are collected for analysis by the  
 4 security analyst, who, after carefully examining the code,  
 5 determines the program does what it should.  
 6 Could you describe what that is stating?  
 7 A. Once again, the idea is there was a larger program to  
 8 begin with. This tool would reduce it but it would still,  
 9 you know, create 100 lines of source code that a human has  
 10 to go through and analyze that source code by hand to  
 11 determine whether that code should be allowed to be  
 12 installed on the system or not.  
 13 Q. Now, Dr. Wallach attempted to use this reference to  
 14 show that there is some type of behavior-based scanning  
 15 going on here.  
 16 Does this document show an automated  
 17 behavior-based scanning that you could install in the  
 18 gateway?  
 19 A. No, they are very clear this is designed to be used by  
 20 a human.  
 21 Q. Actually, your science laboratory at the University of  
 22 California, Davis, were you guys pretty much on the cutting  
 23 edge at this time, in 1994?  
 24 A. Yes, we were.  
 25 Q. I want to show you on Page 5, look at this third

Heberlein - direct

Heberlein - direct

1 paragraph right here. Just that very first sentence says?  
 2 Virus scanners are the only automated tool available  
 3 nowadays for malicious code detection."

4 Do you see that?

5 A. Yes.

6 Q. "They detect known viruses by scanning binary programs  
 7 for predetermined machine code sequence." Do you see that?

8 A. Yes.

9 Q. What is that referring to?

10 A. Once again, as an automated tool, this is something if  
 11 you want to install on a gateway that will a run on its own  
 12 without a human sitting there analyzing everything, for an  
 13 automated tool at this time, the authors believed that the  
 14 traditional virus signature-based scanning was the only  
 15 technique that was a viable technique.

16 Q. Let's go to the next reference that Dr. Wallach relied  
 17 upon, DTX-1021. This was referred to as the Shaio  
 18 reference. Do you know what this reference is?

19 A. Yes, I do. It's another reference to a filtering file  
 20 system.

21 Q. Does the Shaio reference disclose a proactive  
 22 scanning?

23 A. No, it does not disclose proactive scanning.

24 Q. Is this -- the firewall technology at the time, there  
 25 is a lot of firewall patents we are going to talk about,

1 A. Well-formed code.

2 Q. If you have a bytecode verifier and you have  
 3 well-formed code that comes into it, does that code get  
 4 passed on?

5 A. Yes.

6 Q. If that well-formed code is some nasty virus that is  
 7 going to destroy your system, does that get passed on?

8 A. As long as the person who wrote the virus doesn't have  
 9 any syntax errors in his virus, it will get passed on.

10 Q. Based on your experience working with viruses and  
 11 worms and all these other nasty little things that go around  
 12 the computer, are many of those written with well-formed  
 13 code?

14 A. Many of those are very well written.

15 Q. The last primary reference that Dr. Wallach relied  
 16 upon for the '194 patent was DTX-1022, which is the Chen  
 17 patent.

18 Are you familiar with this document?

19 A. Yes, I am.

20 Q. And what is this document?

21 A. This document is a patent for looking at macro  
 22 viruses, in, like a Word document. These are instructions  
 23 within, like, a Word document that you would type up, for  
 24 example. And it would scan the file that's on your machine  
 25 to look for those particular -- potential word viruses that

1288

Heberlein - direct

Heberlein - direct

1 were firewall patents -- strike that.

2 Were firewalls new in the 1996 time period?

3 A. Firewalls were not new in the 1996 time period. I  
 4 think they probably emerged around '92 or '93.

5 Q. At the time of the '194 patent application, firewalls  
 6 had been around for anywhere from four to five years.  
 7 Correct?

8 A. Correct. Primarily, the filtering firewall base was  
 9 the most popular form.

10 Q. And then the last, primary reference that -- let me --  
 11 well, let me ask one more question about Shaio.

12 Shaio was used by Dr. Wallach to show that there  
 13 was a bytecode verifier that was incorporated by reference.  
 14 Do you recall that?

15 A. Yes, I do.

16 Q. What is a bytecode verifier?

17 A. In Java, Java is one of the program languages, you  
 18 take the original Java code and compile it down to this  
 19 intermediate form called the bytecode. And the verifier,  
 20 you look at that bytecode and make sure that it basically  
 21 has a syntax there, so it is not going to crash when you run  
 22 it, so its primary purpose is to make sure it is  
 23 well-formed.

24 Q. When we talk about "well-formed," do you mean  
 25 well-formed code?

1 are the macros.

2 Q. Would this type of thing probably be located on the  
 3 computer itself?

4 A. Yes, that's the way they describe it.

5 Q. It is not located at the gateway, is it?

6 A. They do not describe it as located at the gateway.

7 Q. So those are the four primary references that we are  
 8 using. We will address the secondary references as well.

9 Using these references, I want to show you the charts that  
 10 Dr. Wallach went through, and, as you said, just kind of  
 11 checked them as they went.

12 The first one involves the '194 patent and using  
 13 the Shaio reference. Mr. Heberlein, you have seen these  
 14 charts that I tried to fill out as Dr. Wallach went through?

15 A. Yes.

16 Q. Let's just walk through these very quickly. This is  
 17 where Dr. Wallach said everything that is in Shaio is found  
 18 in the '194 patent. Do you recall that?

19 A. Yes, I do.

20 Q. You saw his testimony on that?

21 A. I read his testimony on that.

22 Q. That's what I meant to say. Just to start off with,  
 23 do you think every element of Claim 1 of the '194 patent is  
 24 found in the Shaio reference?

25 A. No. I do not believe that every element of Claim 1 is

1290



Heberlein - direct

Heberlein - direct

1 found in the Shaio reference.

2 Q. Just, once again, the Shaio reference is the firewall  
3 patent. Am I right?

4 A. That is correct.

5 Q. Let's start with the very first element. We all  
6 agree -- that is kind of out of focus, isn't it. Can you  
7 read that okay?

8 A. Yes, I can. A little fuzzy.

9 Q. I guess we can all agree it is a computer-based  
10 method, comprising. We can agree that Shaio does have a  
11 computer-based method. Okay.

12 Right here, "receiving an incoming downloadable  
13 addressed to a client." Does the Shaio reference actually  
14 receive an incoming downloadable addressed to a client?

15 A. No. Once again, if you remember my earlier testimony  
16 where I talked about the filtering firewall versus the  
17 gateway where a filtering firewall, a packet comes in, gets  
18 examined and goes out, whereas a gateway will go ahead and  
19 receive the entire document, do its analysis and then  
20 release it.

21 So when they are talking about here, a receiving  
22 an incoming downloadable, that's what the gateway needs to  
23 do, is pull the whole document down or the whole program  
24 down and do the analysis.

25 The Shaio reference describes a system that is

1 be next to impossible to extract a security profile.

2 Correct?

3 A. I think that's a reasonable assumption.

4 Q. Is there any type of comparison of -- I guess if it  
5 doesn't have a downloadable, there is nothing to compare it  
6 to, is there?

7 A. It doesn't have the downloadable and you can't build a  
8 profile for the downloadable and it can't do the comparison  
9 with anything.

10 Q. Would you disagree with Dr. Wallach that that element  
11 is anticipated by the Shaio reference?

12 A. I would disagree, and, once again, it would have been  
13 nice and helpful for me if he would have provided explicit  
14 examples of each of these pieces. He just sort of waves his  
15 hands and says it's there and doesn't prove it.

16 Q. One of the things -- I should address this -- that  
17 Dr. Wallach did, to save time, we are doing the same thing,  
18 he addressed Claims 32 and 65 at the same time, because he  
19 said these elements are similar.

20 Is your opinion the same for Claims 32 and 65  
21 with regard to the first element?

22 A. Yes.

23 Q. The one I marked out there. It doesn't receive an  
24 incoming downloadable?

25 A. That's correct.

1292

Heberlein - direct

Heberlein - direct

1 the filtering type, where the packets come in and the  
2 packets go out.

3 Q. Do you recall if Dr. Wallach provided any evidence  
4 whatsoever to support this checkmark within his opinion?

5 A. I don't recall any specific testimony on that.

6 Q. Would you disagree with this checkmark in these  
7 columns here regarding an incoming downloadable for the  
8 Shaio reference?

9 A. Yes, I would.

10 Q. Now, Mr. Heberlein, just that one element alone, is  
11 that enough to make Claim 1 of the '194 patent valid over  
12 Shaio?

13 A. That is enough. Just because you missed the one  
14 limitation, that is enough to allow this claim to be valid  
15 and all additional dependent claims that are dependent on  
16 this one would also be valid.

17 Q. There is a second element here, Compare the  
18 downloadable security profile data pertaining to the  
19 downloadable. Do you see that?

20 A. Yes.

21 Q. Does Shaio do anything like that? Does it do that  
22 step?

23 A. I couldn't identify any particular security profile  
24 that was extracted from a downloadable.

25 Q. In fact, since it doesn't get downloadables, it would

1 Q. And for the second element, the, Generating a security  
2 profile from the downloadable, you disagree with Dr. Wallach  
3 on that regarding Claims 1, 32 and 65?

4 A. That's correct.

5 Q. Then the actual third element of Claim 1 and Claim 32  
6 and 65 as well -- I want to ask one other question. My  
7 colleague just pointed something out.

8 The bytecode verifier, would it do any of those  
9 steps we talked about earlier?

10 A. The bytecode verifier was not about downloading and it  
11 didn't extract a security profile. And it doesn't compare  
12 that computer profile to a particular security policy to  
13 determine whether to allow it to go through or not.

14 Q. If we look at this third element of Claim 1,  
15 Preventing execution of the downloadable by the client if  
16 the security profile has been violated, obviously, there is  
17 no downloadable, is there anything that would try to look at  
18 a security profile and a downloadable and prevent execution  
19 of a downloadable in the Shaio reference or the bytecode  
20 verifier that he discussed?

21 A. No. Once again, I couldn't identify anything that  
22 says, you know, here is a security profile and here is a  
23 security policy, and we will do the comparison. I couldn't  
24 find anything to that effect in this the document.

25 Q. We talked about Shaio and the firewall patent that

1294



Heberlein - direct

1 the Shaio reference, in light of the firewall tool kit,  
 2 would invalidate Claim 28?  
 3 A. Once again, I saw no evidence that that would be the  
 4 case.  
 5 Q. We talked about the firewall tool kit. That is just a  
 6 disk. Right? It's not a publication. Right?  
 7 A. Well, it's not a disk. It's a bunch of source code,  
 8 correct.  
 9 Q. We saw it on a disk. We saw it on a little compact  
 10 disk. That is what the source code is stored on. Right?  
 11 A. That is apparently how you got the source code here,  
 12 that's correct.  
 13 Q. Fair enough. If you -- in that little disk, in that  
 14 source code, if I were to print out on paper just one page  
 15 and go through all that source code and print it out, how  
 16 many pages -- I know you can't tell exactly -- approximately  
 17 how many pages does the source code encompass?  
 18 A. Boy, that is a wild guess. I would say a few hundred  
 19 pages, probably.  
 20 Q. In those 200 pages --  
 21 A. A few hundred.  
 22 Q. I am sorry. A few hundred pages. Without knowing  
 23 where the site or the reference that Dr. Wallach is  
 24 referring to is, were you able to just try to figure out,  
 25 take a shot in the dark and figure out what he was trying to

1316

Heberlein - direct

1 say when he says, Firewall tool kit?  
 2 A. Yes. I looked through the source code as part of my  
 3 earlier rebuttal for the document that I had. And I  
 4 couldn't find anything. Once again, if he is going to make  
 5 this claim, it would be helpful for me to rebut it if he  
 6 actually told me where in the evidence or showed me the  
 7 evidence that he is claiming invalidates this. So he didn't  
 8 show me any particular evidence. So it's virtually  
 9 impossible for me to do any rebuttal on that particular  
 10 aspect of his statement.  
 11 Q. So based on that, do you have an opinion as to whether  
 12 Dr. Wallach's opinion regarding Claim 28 is viable?  
 13 A. I believe that Claim 28 is viable.  
 14 Q. Is valid?  
 15 A. Is valid.  
 16 Q. The last two claims of the '194 patent are very  
 17 similar to the previous claim. Once against, using the  
 18 firewall tool kit for both claims, and with the Shaio  
 19 reference, would you have the same analysis for Claims 29  
 20 and 30 that you had for Claim 28?  
 21 A. Let's see. Certainly on Claim 29, that, once again, I  
 22 saw nothing in the firewall tool kit that would provide that  
 23 capability. And on Claim 30, he didn't provide any evidence  
 24 to back up his claim.  
 25 Q. So based on that, would you disagree with

Heberlein - direct

1 Dr. Wallach's opinion on Claims 29 and 30?  
 2 A. I would disagree with his position.  
 3 Q. So based on the sites we showed you in Shaio and the  
 4 bytecode verifier that was incorporated by reference, do you  
 5 have an opinion that any of the claims of the '194 patent  
 6 are anticipated by Shaio?  
 7 A. No. Once again, you know, there is a number of pieces  
 8 that just sort of wipe it out. One, the filtering firewall  
 9 as opposed to a gateway, which is one of these things we  
 10 talked about, are two different animals.  
 11 The other element is the issue of downloadables.  
 12 So there are just too many major pieces that are missing  
 13 from the Shaio reference.  
 14 Q. Did you find that any of the secondary references that  
 15 Dr. Wallach relied on to try to find these missing elements,  
 16 did they, in fact, supply those elements or did they provide  
 17 evidence that they were there?  
 18 A. I could not find any evidence and I didn't see any  
 19 evidence that he provided to show that they were there.  
 20 Q. Dr. Wallach also went through the same set of claims  
 21 using combination of references. The references he used as  
 22 a base reference was the Ji reference that we discussed, the  
 23 Ji '95. He combined that with the Lo '94 or the Chen  
 24 reference. Do you see that?  
 25 A. Yes, I see that. Let me pull up my notes here one

1318

Heberlein - direct

1 second.  
 2 Q. Sure.  
 3 (Pause.)  
 4 Q. It's towards the back of your report there.  
 5 A. Okay.  
 6 Q. Do you have it?  
 7 A. Yes.  
 8 Q. We have talked about the Ji reference, the Ji '95  
 9 reference, the Lo '94, and the Chen reference. Let's see if  
 10 we can get through these claims.  
 11 Once again, we will forego the preamble here.  
 12 Does the Ji reference, in combination with Lo, disclose  
 13 receiving an incoming downloadable addressed to a client, by  
 14 a server that serves as a gateway to the client?  
 15 A. I didn't have an opinion on that particular  
 16 limitation. I think if you go to the next page, if you  
 17 could do that for a second.  
 18 Correct. That top line there, where we are  
 19 talking about comparing the downloadable security profile  
 20 data pertaining to the downloadable, that is part of Claim 1  
 21 and that's the limitation that the combined documents don't  
 22 provide.  
 23 Q. Would you describe why that is the case?  
 24 A. Once again, the '194 patent goes ahead and extracts  
 25 this representation of the security behavior of a program,

Heberlein - direct

1 or a downloadable, and then compares that against the  
2 security policy. And those two pieces, extracting the  
3 profile and comparing it to a policy, are missing from the  
4 existing documents.

5 I didn't see any particular evidence that  
6 Wallach provided that identified those two pieces.

7 Q. And the idea of combining references, I want to talk  
8 about that real quick.

9 You mentioned earlier that the Lo reference  
10 involves a human analyst and it's just a tool for a human  
11 analyst. It's not stuck on the gateway to automatically  
12 check things coming into the gateway. Correct?

13 A. That's correct. I couldn't see any reasonable  
14 explanation for why Wallach would want to combine these two  
15 references.

16 One is a system based on a firewall that runs  
17 automatically. And the other one is a set of tools that are  
18 specifically designed to work with a human, an analyst. We  
19 went through that before where the analyst has to check this  
20 or we narrowed it down to underlining code. It makes no  
21 sense to combine those and say, I can just combine these and  
22 throw those out and therefore it anticipates the claims.

23 There is no reasonable explanation to combine  
24 these two.

25 Q. Now, counsel and Dr. Wallach said that would be a

1320

Heberlein - direct

1 reason to combine Ji and Chen because they worked in the  
2 same company, Trend Micro. We had a board showing the same  
3 references together, showing the two companies.

4 I want to show you the cover of the Ji  
5 reference, if you go to DTX-1019.

6 If you go to that list of patents there on the  
7 left -- I am sorry. We should go to the Chen reference. It  
8 came later in time. That is 1022.

9 Now, the Chen reference was issued a few years  
10 after the Ji patent. Correct?

11 A. That is correct.

12 Q. And did the inventors of Chen, even though they had  
13 common inventors, did they disclose the Ji patents in this  
14 prosecution?

15 A. No, I didn't see any reference that said, Look at this  
16 other work we had done.

17 Q. What conclusion did you draw from that?

18 A. For starters, there is not -- when you combine  
19 references, you need to provide some motivation that says, I  
20 can combine this reference with that reference. And I  
21 didn't see any motivation for that.

22 There was a claim in the testimony that because  
23 they worked at the similar company, or had a similar  
24 inventor, that that would be motivation to combine. But,  
25 for example, in our case at UC Davis, I worked with people

Heberlein - direct

1 who did the Raymond Lo work, the Lo '94 work. And I was  
2 doing network security monitoring and we were analyzing  
3 network security packets, and we wouldn't know to combine  
4 these. They were different efforts and we went our own way.

5 In addition, in the work of UC Davis, the work  
6 had similar authors, Carl Lovett, who was my advisor, as  
7 well as Raymond Lo's advisor. The fact that it was the same  
8 organization and the common author -- at a minimum, they  
9 should say, Look at their previous work, we can combine  
10 these two.

11 Q. And in this particular case, it would different types  
12 of work? I believe you described Ji earlier as using the  
13 traditional signature-based virus detection and Chen looking  
14 at macros on the computer screen?

15 A. That's correct.

16 Q. There would be no -- is there -- it would be your  
17 opinion there would be no motivation to look to each other  
18 and put these two together for any reason?

19 A. You know, I would not see any particular reason to do  
20 it. If they could provide some strong evidence, I would  
21 take a look at that evidence.

22 It would have been nice if the authors would  
23 have said, in their paper, that, Gee, we can combine this  
24 with our other work, which they didn't do.

25 Q. In fact, the common inventors which had a duty to

1322

Heberlein - direct

1 disclose didn't even disclose their previous patent, did  
2 they?

3 A. No.

4 Q. So based on your view of the Ji reference in  
5 combination with either Lo or Chen, do you disagree with  
6 Dr. Wallach's opinion regarding the second element here?

7 A. Yes, I do.

8 Q. The third element there kind of falls with No. 2. Is  
9 that the same way?

10 A. Correct.

11 Q. So would you disagree Dr. Wallach's opinion regarding  
12 the third element of Claim 1?

13 A. Yes, I do.

14 Q. Then when you combine references, we are not talking  
15 about anticipation of claims. We are talking about  
16 obviousness. Right? When we combine references?

17 A. Yes.

18 Q. So is it your opinion that the Ji reference in  
19 combination with either Lo '94 or the Chen reference do not  
20 make the Claim 1 obvious of the '194 patent?

21 A. No. Because as we went through, several limitations  
22 weren't part of it, and, so, to make it obvious, you have to  
23 knock off all the limitations. I believe they did.

24 Q. That is true for Claims 1, 32 and 65?

25 A. Yes.

Heberlein - direct

Heberlein - direct

1 Q. Of the '194 patent, I should say?

2 A. Yes.

3 Q. Then as we get into the dependent claims, Claim 2,  
4 which is dependent on Claim 1, do you have any basis for  
5 showing that -- obviously, if Claim 1 is not obvious, Claim  
6 2 wouldn't be either. Is there any independent basis that  
7 you have?

8 A. I couldn't find any evidence or independent evidence  
9 that would identify decomposing it into a security profile.

10 Once again, the important step in the '194 is to  
11 take the original program and extract the security behavior  
12 aspects of it, then you have that security aspect behavior  
13 that you can then compare against other things.

14 Q. Let's talk about that just a little bit using the Chen  
15 reference. I believe that is what Dr. Wallach had attempted  
16 to state, although he didn't show it. We will go to Exhibit  
17 1022. If we go to Figure 6 of this, blow up this section  
18 right.

19 Does this show what you just talked about where  
20 it doesn't extract a security profile from the virus coming  
21 in?

22 A. That's correct.

23 Q. Could you describe to the jury what that is  
24 describing?

25 A. Once again, this is a flow diagram for the steps that

1324

Heberlein - direct

1 the Chen work takes. It starts out, once again at the top,  
2 where it says, Start. The next thing is it scans for known  
3 viruses, then it makes a decision step there, basically,  
4 does it have any known viruses, that is the traditional  
5 signature method we know about. If so, it goes to the  
6 branch on the right.

7 If it doesn't have any known signature elements,  
8 it goes down to the box below, Box 615. Then it pulls out,  
9 not from the code, it pulls out a set of instructions that  
10 it wants to look for. Once again, this isn't the analysis  
11 of the code itself. Then in Box 620, we look at the code  
12 itself.

13 That is the basic beginning of the steps.

14 Q. Is that a fundamental difference than what is  
15 described in the '194 patent?

16 A. Correct. Because in the '194 patent, we analyze --  
17 not we, the patent analyzes the code, or analyzes the  
18 downloadable and extracts this profile.

19 So they are looking at a, you know, they talk  
20 about, they don't talk about extracting a profile here.

21 Q. Could we go back to the Elmo, please.

22 So you are talking about Claim 2. Is it your  
23 opinion that Dr. Wallach's opinion is incorrect regarding  
24 Claim 2 of the '194 patent?

25 A. That, and, in addition, the fact that it's dependent

1 on Claim 1.

2 Q. And looking at Claim 3, do you have an opinion if  
3 Dr. Wallach's opinion is correct regarding his analysis of  
4 Claim 3?

5 A. We are doing the -- this is just the Ji-Chen?

6 Q. Ji-Chen or Ji-Lo. It is two different parts in your  
7 report?

8 A. Once again, the fact we don't extract a security  
9 profile that we can compare against a policy renders this  
10 one moot.

11 Q. Now, you reviewed the testimony of Dr. Wallach  
12 regarding the Ji and the Chen and the Lo reference. Did you  
13 see anything in his testimony to provide to this jury where  
14 he gave specific sites to where these elements could be  
15 found?

16 A. I did not see any particular evidence. When he was  
17 doing these charts, this would have been an ideal spot to  
18 say, Here is this restriction, or, here is this limitation  
19 to this claim, here is the evidence in these other documents  
20 that address this particular limitation.

21 You know, it would have made, you know, my job a  
22 lot easier to rebut it if he would have been very explicit  
23 to say, Here is our evidence for this limitation, and he  
24 doesn't provide a nice, concise example of that.

25 Q. Do you have an opinion as to whether Dr. Wallach's

1326

Heberlein - direct

1 opinion is correct regarding Claim 3 of the '194 patent in  
2 light of Ji and Lo or Ji and Chen?

3 A. I disagree with his opinion.

4 Q. Now, when we get to other dependent claims, now we  
5 have, it's either Ji, Lo, Microsoft Authenticode or Signed  
6 Java, or Ji, Chen, Microsoft, Authenticode, Signed Java.

7 Do you have an opinion as to whether, trying to  
8 pull bits and pieces out of all these different references  
9 would invalidate, make Claim 4 obvious of the '194 patent?

10 A. Once again, actually, all the arguments that he uses  
11 here are the same arguments that he apparently made in the  
12 previous one, where he just says, Firewall, tool kit, it's  
13 there. He didn't provide any evidence, though. Microsoft,  
14 Authenticode, it's there, but he never provides any evidence  
15 to that fact.

16 Q. Claim 4 is talking about the scanning for trusted  
17 certificates. Is that the same analysis you gave earlier,  
18 the Microsoft Authenticode would not do that?

19 A. Correct. We are looking at, once again, I hate to  
20 belabor this point, but two different pieces here. One is  
21 whether the code has been signed, and the code hasn't been  
22 tampered with, which is what the Authenticode does, versus  
23 looking for a -- looking at a trusted certificate, whether  
24 it is coming from a company that I trust.

25 That's what this particular limitation is about.



Heberlein - direct

Heberlein - direct

1 And the Authenticode isn't addressing that.

2 Q. And you saw the testimony of Dr. Wallach here last  
3 week that Microsoft and Authenticode is the same thing as  
4 the Signed Java?

5 A. Yes. He said they are the same.

6 Q. Would you disagree with his analysis regarding Claim  
7 4, then?

8 A. I would disagree with his analysis.

9 Q. Claim 5, 6 and 7 deal with the issues of URLs once  
10 again. Is there anything that the firewall tool kit would  
11 add to the combinations of Ji and Lo or Ji and Chen and this  
12 firewall tool kit that's not referenced at any specific  
13 point? Would that add anything to your opinion regarding  
14 those claims?

15 A. No, it would not.

16 Q. Do you have an opinion as to Claims 5, 6 and 7 of the  
17 '194 patent in light of Ji and Lo or Ji and Chen with the  
18 addition of the firewall tool kit?

19 A. I couldn't find anything that would discredit the  
20 claims.

21 Q. Do you disagree with Dr. Wallach's opinion regarding  
22 those?

23 A. I disagree with the opinion.

24 Q. Then we get into these claims 8 and 33, 9 and 34, 10  
25 and 35, and 11 and 36, which are side-by-side. Once again,

1

2 Was there anything in Dr. Wallach's expert  
3 report or in his testimony here last week that would give  
4 you any indication what he was talking about or the spot he  
5 was talking about with regard to the firewall tool kit and  
6 these claims?

7 A. I did not see any particular testimony that would  
8 address this particular issue.

9 Q. And based on that, do you have an opinion as to  
10 whether Dr. Wallach's opinion, regarding Dr. Wallach's  
11 opinion regarding these claims that require Java applets,  
12 ActiveX control, JavaScript and Visual Basic?

13 A. You know, once again, I disagree with his opinion.

14 Q. That being said, do you disagree with his opinion  
15 regarding Claims 8, 9, 10, 11, 33, 34, 35, and 36 of the  
16 '194 patent?

17 A. Correct.

18 Q. Now we are on to Claim 12 of the '194 patent.  
19 Dr. Wallach testified that the elements of Claim 12 can be  
20 found in Ji and Lo or Ji and Chen. Do you have an opinion  
21 as to whether that is the case?

22 A. Once again, I disagree because I saw no evidence that  
23 any of these combinations would create a security -- let's  
24 see. Once again, this is part of an extension to Claim 1  
25 where Claim 1 said, We had to extract the security profile,

1328

Heberlein - direct

Heberlein - direct

1330

1 it has the same references with the firewall tool kit. This  
2 involves the Java applets, the ActiveX control, the  
3 JavaScript and Visual Basic.

4 Was there any place cited in the firewall tool  
5 kit or any evidence that was cited specifically that would  
6 provide you with a reference point that would allow you to  
7 find what Dr. Wallach was talking about, what the firewall  
8 tool kit added to these claims?

9 A. No. Once again, they are part of Claim 1. When you  
10 look at this particular claim, you have to include all the  
11 elements of Claim 1. And Claim 1 was building a security  
12 profile from a downloadable.

13 There was no evidence that combining all these  
14 elements would create that capability.

15 Q. So, when we have these combinations of Ji and Lo or Ji  
16 and Chen, you have to add all these other different  
17 references in, is that an admission that basically Ji and Lo  
18 or Ji and Chen just don't do it and they are just trying to  
19 add more pieces to the puzzle?

20 A. That's correct. To --

21 MR. HOLDREITH: That is just argument, Your  
22 Honor. Objection.

23 THE COURT: Sustained.

24 BY MR. ANDRE:

25 Q. Was there anything in the fire tool kit -- strike that

1 and then this one says, Compare that profile to a policy,  
2 and, once again, I saw nothing that would say, Here is the  
3 profile that we can compare against the policy.

4 Q. So would you disagree with Dr. Wallach's opinion  
5 regarding Claim 12?

6 A. I would.

7 Q. Claim 13 and 14 requires the addition, once again, of  
8 the firewall tool kit. Did you see any evidence in  
9 Dr. Wallach's expert report or even in his testimony that  
10 would allow the firewall tool kit to fill the holes that he  
11 is trying to do here by combining Ji and Lo and Ji and Chen?

12 A. I saw no evidence in his testimony that would support  
13 that position.

14 Q. Would you disagree with his opinion regarding 13 and  
15 14?

16 A. Yes, I do. In addition, it's also dependent on Claim  
17 1. We discussed that before.

18 Q. In Claim 24, it's a method of Claim 1 further  
19 comprising the steps of comparing the downloadable against a  
20 known downloadable. Do you have an opinion, and Claim 25 is  
21 the method of Claim 24 wherein the known downloadable is  
22 hostile.

23 Did you see anything in Dr. Wallach's report  
24 that would support his opinion that those particular claims  
25 are obvious?



Heberlein - direct

Heberlein - direct

1 A. I didn't see anything in his testimony that would  
 2 support that.  
 3 Q. In Lo '94 -- that is the lab you worked in at UC  
 4 Davis -- when you require a human analyst, a human being to  
 5 sit there and look at the code when it comes in, would that  
 6 reference apply to what was really being discussed in the  
 7 '194 about putting something at the gateway to look for  
 8 downloadables?  
 9 A. Once against, it's different animals.  
 10 Q. Like apples and orange type things?  
 11 A. Yes.  
 12 Q. Based on that, would you disagree with Dr. Wallach's  
 13 opinion regarding Claims 24 and 25?  
 14 A. Yes, I would.  
 15 Q. Finally, with regards for Claim 26, it's the known  
 16 downloadable is not hostile, that is pretty close to the  
 17 previous claim, Claim 25, would you have the same opinion  
 18 regarding Claim 26?  
 19 A. Well, once again, yeah, I saw no evidence where he  
 20 could identify that a downloadable was non-hostile.  
 21 Q. So you disagree with his opinion there?  
 22 A. I disagree with his opinion there.  
 23 Q. Now, you add the Hershey reference in Claim 27, and  
 24 did you have an opinion as to the Claim 27 and Dr. Wallach's  
 25 opinion?

1 A. Yes. Once again, it's dependent on Claim 1, which we  
 2 have already established is valid.  
 3 Q. So based upon your view of the evidence that has been  
 4 presented to the jury in this case, do you find any evidence  
 5 that the asserted claims of the '194 patent are obvious in  
 6 light of the prior art?  
 7 A. No, I do not find any evidence for that.  
 8 Q. I want to look at the '780 patent right now.  
 9 Mr. Heberlein, the '780 patent, the references  
 10 cited against the '780 patent by Dr. Wallach were the  
 11 Microsoft Authenticode and the Signed Java. Do you recall  
 12 that?  
 13 A. Yes, I do.  
 14 Q. With respect to the Microsoft Authenticode reference,  
 15 and that's DTX-1276, do you recall reading the testimony  
 16 that Dr. Wallach only showed you a single paragraph of this  
 17 reference?  
 18 A. Yes.  
 19 Q. If we go to Page 758, highlight this last paragraph  
 20 here, this is the single paragraph that Dr. Wallach  
 21 testified to regarding the Signed Java -- I mean the  
 22 Microsoft Authenticode technology. Is that correct?  
 23 A. That is correct.  
 24 Q. Is there anything in that paragraph that you saw that  
 25 would anticipate or make obvious any of the claims of the

1332

Heberlein - direct

1 A. Once again, especially with regards to Lo '94, I  
 2 couldn't figure out any way that you could combine Hershey  
 3 with Lo '94. And it's also, you know, valid based on the  
 4 fact that it's dependent on a claim that we have already  
 5 established was valid.  
 6 Q. Now, when you testified that you disagree with  
 7 Dr. Wallach, does that mean it is your opinion that these  
 8 claims are, in fact, valid?  
 9 A. It is my opinion that they are valid and it's also  
 10 certainly my opinion that they -- he didn't prove that they  
 11 were invalid. So certainly both cases.  
 12 Q. With respect to Claims 28 and 29, requires the  
 13 addition of the firewall tool kit, did you have an opinion  
 14 regarding those two claims?  
 15 A. I could not find anything in the source code and he  
 16 didn't provide any evidence that I know of that would back  
 17 up those claims.  
 18 Q. Do you disagree with Dr. Wallach's opinion regarding  
 19 Claims 28 and 29?  
 20 A. I disagree with his opinion.  
 21 Q. Finally, with regard to Claim 30, the method of Claim  
 22 1, further comprising that the step of informing a user upon  
 23 detection of a security policy violation, do you disagree  
 24 with Dr. Wallach's opinion that the Ji and Chen or Ji and Lo  
 25 were disclosed as elements?

1334

Heberlein - direct

1 '780 patent? Feel free to read it.  
 2 (Pause.)  
 3 A. I disagree there is anything in here that invalidates  
 4 the '780 patent.  
 5 Q. Let's talk about that specifically. The first element  
 6 here is a computer-based method for grabbing a downloadable  
 7 ID to identify a downloadable. Then it says, "Comprising."  
 8 That is the preamble of the claim. Right?  
 9 A. Yes. What's the reference number for this again? The  
 10 DTX number?  
 11 Q. It's 1276. It should be in the book in front of you.  
 12 A. Okay.  
 13 Q. Does the Microsoft Authenticate obtain a downloadable  
 14 that includes one or more references to software components  
 15 required to be executed by the downloadable?  
 16 A. The evidence that he provided didn't show any evidence  
 17 of doing the downloadable portion of this.  
 18 Q. So would you disagree with Dr. Wallach's opinion  
 19 regarding the second element of Claims 1, 9 and 18?  
 20 A. Yes, I would.  
 21 Q. Let me take a step back real quick. On this Microsoft  
 22 Authenticode document, we will go to JTX-2, could you  
 23 highlight this area here.  
 24 So was the Microsoft Authenticode technology  
 25 before the United States Patent and Trademark Office during

Heberlein - direct

Heberlein - direct

1 the prosecution of the '780 patent?

2 A. That is correct, that the Patent Office had this

3 document before them when they were reviewing this patent.

4 Q. At the very least, did they understand that the

5 Microsoft Authenticode was cited by the patentee as

6 potential prior art and the claims came out on the list? [

7 A. That's correct, the Patent Office cited that Microsoft

8 had this technology.

9 Q. Not only did they have that reference, but there is

10 another reference here, that is the exact reference that you

11 are looking at as DTX-1276. Correct?

12 A. Yes, it is.

13 Q. So they not only had the reference that Dr. Wallach

14 relied upon for Microsoft Authenticode, they had other

15 documents regarding Microsoft Authenticode as well.

16 Correct?

17 A. That's correct. The Patent Office had this document

18 as well as other Microsoft Authenticode documents in front

19 of them when they were analyzing this patent.

20 Q. Could we go back to the Elmo, please.

21 So based on your view of the Microsoft

22 Authenticode document, and, more specifically, what

23 Dr. Wallach provided in his testimony, did he provide any

24 evidence to show that the Microsoft Authenticode fulfilled

25 the third element here, the fetching at least one software

1 would be the same for 3 and 11?

2 A. You know, once again, it's based on a valid claim --

3 or it's dependent on a valid claim. And he provided no

4 evidence in his testimony on this as well.

5 Q. Then we get to Claim 4 where the downloadable includes

6 a plug-in. Is that based on the same type of analysis?

7 A. Same type of analysis.

8 Q. That's Claim 4 and 12. Is that correct?

9 A. 4 and 12.

10 Q. Then Claims 5 and 13, this was -- there wasn't any

11 cites to dependent Claims 5 and 13 to any of these

12 references, so Dr. Wallach just said, Well, one with skill

13 in the art would just know it, it would be obvious just

14 because it would be known. Do you agree with that?

15 A. I am not particularly aware of anyone assigning HTML

16 pages themselves. So I didn't see any reference that they

17 provided to support their claim.

18 Q. So would you disagree with the opinion that it would

19 just be obvious even though there were no references that

20 cite to this HTML code? It would just be obvious to apply

21 it to independent Claim 1?

22 A. I disagree that it would have been obvious.

23 Q. With regard to Claim 6 and 14, do you have an opinion

24 as to whether those claims would be obvious in light --

25 anticipated or obvious in light of the prior art?

1336

Heberlein - direct

Heberlein - direct

1 component identified by the one or more references?

2 A. The Authenticode technology that he presented did not

3 provide any evidence to that.

4 Q. Would you disagree with his opinion regarding the

5 third element of Claims 1, 9 and 18 of the '780 patent?

6 A. Yes, I disagree.

7 Q. Then the final elements of these independent Claims 1,

8 9 and 18 talk about performing a hashing function on the

9 downloadable and the fetched software component to generate

10 a downloadable ID. Do you see that?

11 A. Yes, I do.

12 Q. Do you agree with Dr. Wallach's opinion that that

13 element would be anticipated or made obvious by the

14 references cited?

15 A. The evidence that he provided, I disagree with his

16 opinion.

17 Q. Now, with respect to Claim 2 and 10, if Claim 1 is not

18 anticipated or made obvious, would that hold true for Claim

19 2 and 10 as well?

20 A. Yes. Once again, sort of the patent rules say that if

21 you have a dependent claim -- or an independent claim that

22 is valid and any claim that depends on that is also valid.

23 It trickles on down.

24 Q. When we get to Claims 3 and 11, do you have an opinion

25 as to whether his analysis regarding Microsoft Authenticode

1338

1 A. Once again, both 6 and 14 are dependent on valid

2 claims. So by default, they are valid.

3 And I don't recall any particular evidence that

4 Wallach provided, I can't recall anything that he provided

5 at this time.

6 Q. So based on your review of what was provided to this

7 jury by Dr. Wallach, did you see any evidence that the

8 claims of the '780 patent would be anticipated or made

9 obvious by the prior art?

10 A. Based on the evidence that, you know, he showed you

11 guys, I don't believe that there is anything in that

12 evidence that would invalidate these claims.

13 Q. Based on your own independent review of the claims of

14 the '780 patent and looking at the Microsoft Authenticode,

15 do you have an opinion as to whether those claims are valid

16 in light of that art?

17 A. I believe the claims are valid based on that analysis.

18 Q. Now we are going to get to the last of the patents,

19 the '822 patent, the sole reference Dr. Wallach relied on to

20 try to prove invalidity of this claim is Ji '97, which is

21 DTX-1932.

22 When you reviewed his testimony, did you notice

23 the only thing he showed the jury was this abstract?

24 A. Yes, I am aware of that.

25 Q. Is there anything in the abstract that would, in your

Heberlein - direct

1 opinion, invalidate the '822 patent, the claims of the '822  
 2 patent?  
 3 A. Let me read it real carefully here.  
 4 Q. Sure.  
 5 (Pause.)  
 6 A. Based on this evidence, I believe all the claims are  
 7 still valid.  
 8 Q. This Ji '97 reference, the '348 patent arbitration  
 9 that was -- was that cited to the United States Patent and  
 10 Trademark Office during the prosecution of the '822?  
 11 A. Yes. Once again, when the Patent Office was looking  
 12 at this particular patent to determine whether it was valid  
 13 or not, the Patent Office had in their hands this particular  
 14 evidence and looked at it and said, No, the patent is still  
 15 valid.  
 16 Q. JTX-3, the second page, please. Is that the Ji '348  
 17 patent we were just talking about?  
 18 A. I believe so. Yes, I wanted to check the numbers.  
 19 Q. If we go to the Elmo, this is the chart that  
 20 Dr. Wallach used. And did you notice that, regarding Claim  
 21 4, one of the elements of the claims is missing from this  
 22 chart?  
 23 A. Yes. I was aware of that.  
 24 Q. Could you give me that board over there.  
 25 So Claim 4 of the '832 patent, the second

1339

Heberlein - direct

1 element is determining whether the downloadable information  
 2 includes executable code. Do you see that?  
 3 A. Yes, I see that.  
 4 Q. And that element is not in Dr. Wallach's analysis, is  
 5 it?  
 6 A. That is correct.  
 7 Q. And when you reviewed his trial testimony, he didn't  
 8 mention this element of Claim 4, did he?  
 9 A. I don't recall seeing -- seeing any testimony to that  
 10 data point.  
 11 Q. So there is nothing for you to rebut there so we won't  
 12 even do that and go to the next one here.  
 13 "Causing mobile protection code to be  
 14 communicated to at least one information-destination of the  
 15 downloadable," et cetera, do you see that?  
 16 A. Yes, I do.  
 17 Q. And that's actually two separate claim elements.  
 18 Correct? On this chart here, there is, Causing mobile code  
 19 and the "wherein" clause?  
 20 A. Yes.  
 21 Q. That is included into a single box here. Right?  
 22 A. Yes.  
 23 Q. Now, based on the, your view -- the testimony provided  
 24 by Dr. Wallach, do you agree with his assessment that these  
 25 multiple elements are found in Ji, this check box here?

Heberlein - direct

1 A. No, I disagree.  
 2 Q. Would you tell you us why?  
 3 A. In particular, once again, it's referencing the fact  
 4 that we have got to determine whether the code is there, and  
 5 Ji does not do that step.  
 6 Q. Then when you get to -- is it okay if I cross that one  
 7 out then?  
 8 A. Yes. There is the one that's not there. That is sort  
 9 of the important one.  
 10 Q. So the element that's missing, which we are not going  
 11 to address because there is nothing to address, that is an  
 12 important element to you in this claim?  
 13 A. Right. Once again, when there is a claim, there is  
 14 several limitations, limitation A, B and C. For them to  
 15 invalidate this claim, they have to in -- show evidence that  
 16 each one of those, A, B and C, are, in fact, anticipated by  
 17 the prior art.  
 18 In this case, they skip one of those. You can't  
 19 go A and C and skip B, and once you skip B, it's game over.  
 20 Q. Based on that, these dependent claims that are  
 21 dependent, Claims 4, 5, 6 and 8, which are all dependent on  
 22 Claim 4, kind of stair stepping up, do you have an opinion  
 23 as to whether those would be valid in light of the evidence  
 24 provided to this jury?  
 25 A. Yes. Once again, because each one is dependent on a

1342

Heberlein - direct

1 previous one, that is valid. They are all valid.  
 2 Q. Would you disagree with Dr. Wallach's opinion  
 3 regarding Claims 5, 6 and 8?  
 4 A. Yes, I do.  
 5 Q. Then we get into Claim 12, you have, "A  
 6 processor-based system, comprising: An information monitor  
 7 for receiving downloadable information; a content inspection  
 8 engine communicatively coupled to the information monitor  
 9 for determining whether the downloadable-information  
 10 includes executable code."  
 11 Do you see that?  
 12 A. Yes, I do.  
 13 Q. Did you find anything in Ji that would include those  
 14 elements?  
 15 A. We are talking about the part that flows from the  
 16 second part -- the last part of the top page and the bottom  
 17 page?  
 18 Q. There is two separate elements, I believe.  
 19 A. I don't remember any testimony or any evidence  
 20 describing a content inspection engine.  
 21 Q. Do you disagree with Dr. Wallach's opinion regarding  
 22 the content inspection engine and the Ji reference?  
 23 A. That's correct.  
 24 Q. How about the claim regarding the packaging engine?  
 25 A. I don't recall from any of his testimony where he



Heberlein - direct

Heberlein - direct

1 identified a mobile production code packaging engine.

2 Q. So would you disagree with Dr. Wallach's opinion  
3 regarding a package engine as well, that element?

4 A. Once again, he didn't provide me enough evidence to  
5 agree with him. So I am going to have to disagree with him.

6 Q. Claim 13 is dependent upon Claim 12. Would that --  
7 what would be your basis of disagreeing with Dr. Wallach on  
8 that one?

9 A. Once again, because it's dependent on a claim that's  
10 already valid, it would be valid as well.

11 Q. Mr. Heberlein, just so we can wrap this up on this  
12 issue of the claims, is it your opinion that the claims, the  
13 asserted claims of the '194 and the '780 and '822 are valid  
14 in light of the prior art?

15 A. It is my opinion that they are all valid.

16 Q. Now, have you heard of a, something called secondary  
17 or considerations of nonobviousness?

18 A. Yes, I have.

19 Q. What is your understanding of secondary considerations  
20 of nonobviousness?

21 A. Secondary considerations of nonobviousness --

22 THE COURT: Mr. Andre, we are going to take our  
23 afternoon break.

24 (Jury leaves courtroom at 3:15 p.m.)

25 (Recess taken.)

1344

Heberlein - direct

Heberlein - direct

1 THE COURT: We are going to go straight through  
2 until 4:30.

3 MR. ANDRE: Your Honor, may the witness take the  
4 stand.

5 (Jury enters courtroom at 3:32.)

6 THE COURT: Ladies and gentlemen, please take  
7 your seats and we will continue.

8 MR. ANDRE: Thank you, Your Honor.

9 BY MR. ANDRE:

10 Q. Mr. Heberlein, before we broke, I asked you if you  
11 have ever heard of something called secondary considerations  
12 of nonobviousness?

13 A. Yes, I have.

14 Q. What is your understanding of those?

15 A. In a broad sense, it's measures of success that the  
16 patented technology has had. Success is determined in a  
17 number of ways. One, does it address a long-felt need. Is  
18 it financially successful? Is it copied by competitors?

19 Those are some examples.

20 Q. Let me ask you a question about that. On your  
21 opinion, has the patented inventions of Finjan's patents we  
22 are talking about here today, have they met a long-felt but  
23 unresolved need in the marketplace?

24 A. Yes, it has. May I explain?

25 Q. Please do so.

1 A. One of the major concerns in security, once again,  
2 that large corporations that spend a lot of money to protect  
3 their information, is the so-called zero-day attack. The  
4 zero-day attack is an attack that either wasn't previously  
5 known and exploits vulnerability that you didn't know about  
6 or at least a vulnerability that you can't patch in your  
7 system.

8 You have these vulnerabilities within your  
9 computer systems, and a new attack comes and you have never  
10 seen the attack. So you want some mechanism to stop that  
11 attack before it gets through.

12 That is particularly an important aspect. That  
13 is what a lot of these -- the major focus of these patents  
14 are, is being able to stop the suspicious activities that  
15 you didn't know about before, any attack that you didn't  
16 know about before.

17 Also, there is a number of benefits to their  
18 architecture that they describe in the patent. Once again,  
19 remember, we talked about two different types of security  
20 systems. One is the filtering firewall. And one is the  
21 gateway. The filtering firewall can be really fast.  
22 Packets come in, packets go out. It is a relatively simple  
23 system that you can implement fairly fast.

24 The gateway, which is the approach that these  
25 technologies are talking about, a much more complex system.

1346

Heberlein - direct

1 A much richer system. So, for example, if someone is  
2 downloading a large file, a gigabyte file or something like  
3 that, it might be a huge file that has to be analyzed. All  
4 that information has to go to the gateway. And the gateway  
5 constructs this information.

6 If a packet is lost somewhere across the  
7 network, the gateway has to say, Hey, I didn't see that  
8 packet. I need to go back and ask the remote machine for  
9 that packet.

10 Filtering firewall, you don't have to worry  
11 about that. The application of gateway also has to  
12 reconstruct all of this information. All these packets come  
13 in and now it has to take all the data and reconstruct the  
14 data it is going to analyze. Then it does the analysis.

15 The gateway we are talking about here has to do  
16 a whole bunch of extra work that the filtering firewall  
17 doesn't.

18 To address that, you need to look at  
19 optimization techniques. That is what these patents are  
20 talking about. Remember before, you would see this new  
21 downloadable code, the first time you have seen it, for  
22 example, you have to do some analysis. That analysis is  
23 costly. We are going to do the analysis, extract the  
24 security profile, we are going to go ahead and keep it.  
25 That is sort of the focus of the '194 patents and the



Heberlein - direct

Heberlein - direct

1 additional patents.

2 The next time that same downloadable comes by, I  
3 don't have to go through all that additional work to  
4 decompose and analyze that program because I have already  
5 done it once and we have kept that information to use it a  
6 second time.

7 We have got this optimization that says, I have  
8 kept this information around, I don't need to do it a second  
9 time.

10 So we talked about quickly the zero-day attack,  
11 then the optimization for extracting the security profile  
12 and keeping that security profile, so that, subsequently, I  
13 don't have to do further analysis.

14 A third aspect is especially important for a lot  
15 of worms and viruses, the self-propagating code. In the  
16 security field, we talk about a security code being hard and  
17 crunchy on the outside and soft and chewy on the inside.  
18 What that means is that a site will protect the perimeter,  
19 it will put a lot of protection, it will investment money,  
20 they will put the firewall to stop the attack from coming  
21 in.

22 Once an attack has gotten into the system, it  
23 can spread pretty easily. Once again, if you have a  
24 zero-day attack, and, once again, the worm gets in  
25 initially, once it gets in, it can spread throughout your

1 page and display ^ read SDMRAND this system. It would have  
2 some text and a picture. And every time you went, you got  
3 the exact same stuff back. It was always displayed exactly  
4 the same.

5 Over time, there has been this evolution to what  
6 is now called Web 2.0 or Web Application. So if you look in  
7 the newspaper or see stories, they will, that will talk  
8 about Web 2.0 or Web Applications, which create a much more  
9 dynamic environment on your system, so when I go out to a  
10 site, if you go to Google maps, for example, you will pull  
11 down something. Now I can actually drag around that map  
12 like I was using in the application.

13 Maybe you will have a stock ticker on your  
14 system that constantly goes out and updates the stock  
15 quotes. On your web page, you constantly have this updated  
16 ^ stuff going on. There is entire games that are web-based  
17 games.

18 As you move to this new technology, this Web  
19 2.0, the system is much more dynamic. The mechanisms to  
20 provide that dynamic environment is these downloadable  
21 codes, so pulling down this downloadable code. It is this  
22 increasing trend that the market has to address.

23 Q. Did you find any evidence of copying of the invention  
24 of the Finjan patents in the marketplace?

25 A. Yes, that's another example of, sign of secondary

1348

Heberlein - direct

Heberlein - direct

1 organization relatively quickly.

2 So the classical signature-based detection  
3 system, a classical signature-based virus detection system  
4 can't stop those worms.

5 It is a classical system that they can't build a  
6 signature until they see the attack. Once the attack gets  
7 inside your network, it can route your network and you are  
8 kind of screwed up.

9 The technology they are talking about here  
10 addresses all those issues and addresses the zero-day  
11 attack, it addresses workload that you are going to have to  
12 address on your server.

13 Once again, you are going to put this gateway  
14 there. It is going to intercept all this traffic between  
15 your organization and the outside world. So you want it to  
16 be fast or else users are going to complain.

17 It is also especially important in the case of  
18 self-automated worms that are new, because you want to stop  
19 them before they get in. You want to stop them at that  
20 gateway the very first time you ever seen them.

21 Q. Has the evolution of the Internet had any effect on  
22 this long-felt need in this space?

23 A. Yes. If you look back when the web first came out,  
24 most pages were the static HTML page. So I would get on my  
25 browser. I would go off to a site. It would pull down a

1 considerations. Did someone else like your stuff,  
2 especially a competitor? Yes, there is a number of  
3 examples.

4 Q. Would you please give one of them.

5 A. Certainly, the WebWasher approach copies this, and  
6 they talk about it, specifically wanting to address the same  
7 capabilities. They talk about the Finjan killer. We want  
8 to address, have the capability just like Finjan does.

9 Q. Did you rely upon any documents to make your  
10 determination that the WebWasher copied the patented  
11 technology of Finjan's?

12 A. There were several e-mails. I believe they may have  
13 already been presented; if not, we can present them here.

14 There were several documents that they presented, generated  
15 a White Paper internally that they would use to describe  
16 their systems.

17 Q. Did you look at -- can we see PTX-10.

18 Did you look at this White Paper here?

19 A. Yes, I did.

20 Q. Did you look at this step-by-step guide as well?

21 A. Yes, I did.

22 Q. Based on your review of these e-mails and these guides  
23 and White Papers, did you make -- is that how you made the  
24 determination that WebWasher copied Finjan's patented  
25 technology?

1350

Heberlein - direct

Heberlein - cross

1 A. Yes, sir. Once again, based on these documents, it  
2 certainly appears that WebWasher was trying to duplicate  
3 Finjan's technology.

4 Q. Did you see any evidence of commercial success of the  
5 patented technology?

6 A. Yes, there is a number of them. Finjan is making  
7 millions of dollars selling their products. Obviously,  
8 there is some success there.

9 In addition, Microsoft licensed their patents.

10 So Microsoft is the largest software corporation  
11 in the world. It's got -- I don't know about millions of  
12 developers, but large numbers of developers. So instead of  
13 just developing it on their own, they went off to Finjan and  
14 said, Let's just license their technology.

15 Q. We are calling these "secondary considerations," the  
16 considerations that you just discussed today. Do they  
17 further support your opinion that the asserted claims are  
18 valid and not obvious?

19 A. Yes, they do.

20 Q. Just one final question: Do you find that the Finjan  
21 technology and patents are valid?

22 A. I believe that the patents are valid.

23 Q. Thank you very much, Mr. Heberlein.

24 MR. ANDRE: I haven no further questions, Your  
25 Honor.

1352

Heberlein - direct

Heberlein - cross

1 THE COURT: Mr. Holdreith.

2 MR. HOLDREITH: Thank you, Your Honor.

3 CROSS-EXAMINATION

4 BY MR. HOLDREITH:

5 Q. Mr. Heberlein, good afternoon.

6 A. Good afternoon.

7 Q. Now, you are Mr. Heberlein, not Dr. Heberlein. Right?

8 A. That's correct.

9 Q. You just gave an opinion that WebWasher is a copy of  
10 Finjan. Right?

11 A. That is correct, based on the -- WebWasher has  
12 technologies that Finjan has based on the descriptions in  
13 the documents that I looked at.

14 Q. What you said is that WebWasher is copied from Finjan.  
15 Right?

16 A. Based on my opinion from what I saw, yes.

17 Q. But you did not look at source code for any Secure  
18 Computing product, did you?

19 A. I did not. Someone else was doing that.

20 Q. You didn't rely on somebody else here, did you? This  
21 is your opinion?

22 A. This is my opinion, correct.

23 Q. You didn't look at source code?

24 A. I did not look at their source code.

25 Q. You did not look at any Secure Computing product in

1 operation?

2 A. I did not look at any Secure Computing product in  
3 operation regarding these particular patents.

4 Q. And you haven't, in fact, looked at WebWasher in  
5 detail, have you?

6 A. I have not looked at WebWasher in detail at the code  
7 level. I have looked at the White Papers.

8 Q. You don't know how WebWasher particularly operates, do  
9 you?

10 A. I do not know the specifics of how the code operates,  
11 that is correct.

12 Q. And you have not done a limitation-by-limitation  
13 analysis, where you compared WebWasher to Finjan's patent?

14 A. That is correct. I did not do a limitation to show  
15 that WebWasher infringed specifically on specific claims.

16 Q. So you don't even know if WebWasher does what Finjan's  
17 patent says?

18 A. Based on the documentation that I have seen, it  
19 certainly appears to be the same. But I have not done a  
20 detailed source code analysis with a claim-by-claim  
21 analysis. That is correct.

22 Q. I would like to show you Exhibit 1056. This is one of  
23 the e-mails that you just mentioned that you relied on when  
24 you were studying whether WebWasher was copied. Right?

25 A. I believe so.

1354

1 Q. This is an e-mail called, Product Meeting Minutes,  
2 dated June 1 of 2004?

3 A. According to the print there, yes.

4 Q. And here are some participants. Do you know who any  
5 of these people are?

6 A. Not based on those names, no.

7 Q. The paragraph that you relied on is this Paragraph 3  
8 of Exhibit 1056. Right?

9 (Pause.)

10 A. Yes. I believe there was additional e-mails which  
11 reference the term "Finjan killer."

12 Q. And this e-mail says, "For WebWasher 5.1 planning, two  
13 solutions were elaborated." Right?

14 A. I see the text there.

15 Q. And the text says, "First, we could copy Finjan's  
16 features." That's what it says?

17 A. I see that.

18 Q. That's what you relied on?

19 A. I don't know if I relied specifically on this one and  
20 solely this one.

21 Q. Well, you pointed this out in your report, didn't you?

22 A. I believe so. But I don't know if I cited additional  
23 ones.

24 Q. And the next sentence after that says, "This idea was  
25 dropped because the gain in security is questionable."

Heberlein - cross

- 1 Right?
- 2 A. Yes.
- 3 Q. "And development is too time-consuming." That is the
- 4 next sentence, Right?
- 5 A. I see that.
- 6 Q. The next sentence says, "Second, we developed our own
- 7 mix of methods, which are more favorable for corporate
- 8 customer needs." Right?
- 9 A. I see that.
- 10 Q. So what this e-mail says is, We could, we could copy,
- 11 that idea was dropped?
- 12 A. I see that statement.
- 13 Q. Now, I would like to talk to you about some of the
- 14 prior art you discussed with counsel. First I am going to
- 15 ask you about Shaio, which is Exhibit 1021.
- 16 Do you have that?
- 17 A. Yes.
- 18 Q. All right. Now, in your opinion, Shaio does not look
- 19 at downloadables. Right?
- 20 A. It does not receive a downloadable.
- 21 Q. I am going to show you now Column 2 of Shaio. Column
- 22 2 says, "There is a need for an intelligent firewall."
- 23 Right?
- 24 A. Yes.
- 25 Q. And it says, "that provides realtime security testing

1356

Heberlein - cross

- 1 of network packets." Right?
- 2 A. Yes.
- 3 Q. "Which may include executable code such as applets."
- 4 Right?
- 5 A. Yes, I see that.
- 6 Q. You know that applets are downloadables. Right?
- 7 A. I know that applets are downloadable. This does not
- 8 talk about receiving the downloadable in total. It's
- 9 looking at an individual packet.
- 10 Q. Well, it can't look at executable code such as applets
- 11 unless it receives them, can it?
- 12 A. Once again, this is talking about just potentially a
- 13 fragment of the packet -- or a fragment of the program. We
- 14 are talking about receiving the entire downloadable.
- 15 Q. What it says here is that it "may include executable
- 16 code such as applets," right? Not part of applets?
- 17 A. They provide no means to talk about how to, you know,
- 18 receive entire applets.
- 19 Q. So even though they say they look at applets, your
- 20 opinion is they don't look at applets?
- 21 A. They say they look at packets, which may include
- 22 portions of executable code such as applets.
- 23 Q. There is no disagreement here that applets are
- 24 downloadables. Right?
- 25 A. I am not disagreeing that an applet is downloadable.

Heberlein - cross

- 1 I am disagreeing that they receive a downloadable.
- 2 Q. Now, the other thing Shaio says -- is it your opinion
- 3 that Shaio is not an effort to combat malicious code like
- 4 viruses?
- 5 A. That is not the primary focus of the Shaio effort.
- 6 Q. You said, Shaio just looks for broken code?
- 7 A. Shaio -- well, Shaio has the typical firewall
- 8 filtering features, which, once again, looks at packets
- 9 going in, packets going out.
- 10 Once again, if malicious code is coming from the
- 11 outside and you choose to block it because it has an outside
- 12 address, it could block bad code simply because it's coming
- 13 from the outside address. But that's true with all
- 14 filtering firewalls.
- 15 It blocks malformed applets, and certainly
- 16 malicious code can have bugs in it, too, as we have
- 17 discussed before.
- 18 The fact that it blocks poorly formed code can
- 19 mean it could potentially, you know, block a malicious
- 20 packet. But it's looking not at malicious stuff, because
- 21 malicious stuff needs to be well formed.
- 22 Q. Doesn't Shaio look at parsed executable code, look at
- 23 the instructions and attempt to reduce the probability of
- 24 viruses?
- 25 A. Shaio looks at a single network packet at a time and

1358

Heberlein - cross

- 1 does whatever limited analysis it can do on that individual
- 2 packet.
- 3 Q. That wasn't exactly my question. Let me just show you
- 4 the text of the Shaio Patent at Column 5. This is at about
- 5 Line 7.
- 6 Shaio says, "Additional security may be provided
- 7 by intelligent firewall 185c1"?
- 8 A. Yes.
- 9 Q. The intelligent firewall, that is Shaio?
- 10 A. I would disagree with the term "intelligent." But,
- 11 yes, it's a firewall. It's a filtering firewall.
- 12 Q. The patent says it's an intelligent firewall. You
- 13 disagree?
- 14 A. It's a matter of semantics. I think, you know,
- 15 looking at what the firewall, the semantic, what Shaio did
- 16 was really simple and I don't think hardly anybody in the
- 17 field would consider that an intelligent firewall.
- 18 Q. So Shaio says it's an intelligent firewall; you say it
- 19 is not?
- 20 THE COURT: You have already established that.
- 21 MR. HOLDREITH: I will move on, Your Honor.
- 22 BY MR. HOLDREITH:
- 23 Q. Shaio then says he looks at nonconforming instructions
- 24 in an attempt to reduce the probability of viruses. Isn't
- 25 that what the Shaio patent says?

Heberlein - cross

Heberlein - cross

1 A. The patent does talk about looking at nonconforming  
 2 viruses -- or nonconforming bytecode.  
 3 Q. Well, it says here "nonconforming instructions,"  
 4 doesn't it?  
 5 A. Instructions.  
 6 Q. And the purpose of looking at nonconforming  
 7 instructions here is to reduce the probability of viruses.  
 8 That's what Shaio says?  
 9 A. It can do that.  
 10 Q. One of the things you said, I think, is that you don't  
 11 think Shaio could be combined with the technique of  
 12 filtering URLs. Right?  
 13 A. Not successfully.  
 14 Q. Now, filtering URLs was known by the middle of 1996.  
 15 Would you agree with that?  
 16 A. I don't know. I would have to look at some specific  
 17 examples of that.  
 18 Q. Did you read the trial transcript in this case?  
 19 A. I did. I don't recall a specific line item on that.  
 20 Q. Do you remember Paula Greve testified from Secure  
 21 Computing?  
 22 A. I looked at Wallach's testimony.  
 23 Q. You didn't read Paula Greve's testimony?  
 24 A. No, I did not.  
 25 Q. So do you know that Paula Greve said that Secure

1 gateway to stop hostile downloadables, would they know, if  
 2 there was a request to go to www.stealmycreditcard.com, that  
 3 you could block that request because you didn't like that  
 4 URL. Right?  
 5 A. The question was: Was there a product somewhere in  
 6 existence at that time that could do that capability?  
 7 Q. Right.  
 8 A. I don't know. I don't disagree that there could be a  
 9 product out there that could do that.  
 10 Q. Do you think someone working in the field of network  
 11 security would know that you could use that technique in  
 12 1996 at a gateway?  
 13 A. It depends on the technology at the gateway.  
 14 Q. For some gateways, you could use that technique?  
 15 A. For some gateways, you could use that.  
 16 Q. There is nothing mysterious about URL filtering?  
 17 A. Other than the fact that I think it wouldn't work well  
 18 in a filtering firewall environment.  
 19 Q. Another piece of the prior art that you talked about  
 20 was the Lo '94 reference. Right?  
 21 A. That's correct.  
 22 Q. And you worked with Mr. Lo?  
 23 A. Yes, I did.  
 24 Q. At UC Davis?  
 25 A. Yes.

1360

Heberlein - cross

Heberlein - cross

1362

1 Computing came out with SmartFilter for URL --  
 2 MR. ANDRE: Objection, Your Honor. Outside the  
 3 scope of direct testimony. The witness has no knowledge of  
 4 this testimony.  
 5 THE COURT: I am going to sustain that  
 6 objection.  
 7 BY MR. HOLDREITH:  
 8 Q. If there is evidence in this case, Mr. Heberlein, that  
 9 URL filters were known and available in the middle of 1996,  
 10 would you agree or disagree with that statement?  
 11 A. If there is evidence that URL filters were known, I  
 12 guess I would agree with that statement if you provide  
 13 evidence.  
 14 Q. URL filtering, is an example of URL filter if I get a  
 15 downloadable from www.stealmycreditcard.com, I might block  
 16 that downloadable because I don't like that URL name?  
 17 A. Well, you would block -- typically, the way you would  
 18 do it is block the request as it goes out.  
 19 Q. Fair enough. URL filtering would be, I try to make a  
 20 request out to www.stealmycreditcard.com, the gateway says,  
 21 We are not going to that URL?  
 22 A. Right. I have seen that used with gateways. I don't  
 23 recall having seen that in the filtering firewalls which are  
 24 like this one.  
 25 Q. The question is: In 1996, if someone was building a

1 Q. In the computer science department?  
 2 A. Yes.  
 3 Q. And you said you don't think that Mr. Lo's 1994  
 4 article was publicly available?  
 5 A. The -- I do not know if it was available. In the  
 6 documentation that Secure Computing provided for the prior  
 7 art, they referenced where they got that particular article  
 8 from, and the cite that they referenced for that article did  
 9 not exist at that time.  
 10 Q. The reference you are talking about is a URL?  
 11 A. Correct, they cited a URL.  
 12 Q. You mentioned that URL in your report?  
 13 A. Yes, I believe I did.  
 14 Q. The URL is just a link that somebody could point to on  
 15 the Internet to go get a copy of the Lo article.  
 16 Do you understand that?  
 17 A. Yes, I understand that.  
 18 Q. And you know that that link points to a UC Davis  
 19 computer science server. Right?  
 20 A. Which did not exist at that time.  
 21 Q. Your point is, you were in the department, so you know  
 22 that that server did not exist in 1994. That is your  
 23 testimony?  
 24 A. I believe that did not exist. I also checked  
 25 archive.org and I did not see it there.



Heberlein - cross

Heberlein - cross

1 Q. You know UC Davis, the computer science department  
2 contains an online bibliography of papers, right?

3 A. It does now. I don't know if it did back then.

4 Q. You know that that bibliography talks about the server  
5 we are talking about?

6 A. Again, I don't know if that system was available at  
7 the time the prior art was needed.

8 Q. Did you go look at the link, the URL that points to  
9 the Lo '94 article on the UC Davis computer science server?

10 A. I looked at the one you guys provided.

11 Q. That link points to a bibliography that shows that  
12 Mr. Lo's article was published in computers and security in  
13 1995, doesn't it?

14 MR. ANDRE: Objection, Your Honor. This was not  
15 produced in this case, this information that counsel is  
16 asking questions on. This is the first we have ever heard  
17 of this.

18 THE COURT: Is that accurate?

19 MR. HOLDREITH: This is the link that is in his  
20 report.

21 THE WITNESS: No --

22 THE COURT: Hold on.

23 (The following took place at sidebar.)

24 MR. HOLDREITH: Your Honor, the link that he  
25 cites in his report is this link here. I am just

1 him if the link that he recited in his report doesn't, in  
2 fact, on their bibliography show that their article was, in  
3 fact, published in 1995 in computers and security.

4 THE COURT: Why can't he ask that?

5 MR. ANDRE: It's not --

6 THE COURT: He is not being asked to offer on  
7 opinion as to whether it was available or not. Is that  
8 correct?

9 MR. HOLDREITH: Yes, sir.

10 MR. ANDRE: And this witness has never said it  
11 wasn't available. He says, I don't know if it was or not.

12 THE COURT: I don't think this is too terribly  
13 damaging. You can ask the question.

14 (End of sidebar conference.)

15 THE COURT: The objection is overruled.

16 MR. HOLDREITH: Your Honor, may I approach so I  
17 can hand him the document?

18 THE COURT: Yes.

19 BY MR. HOLDREITH:

20 Q. Mr. Heberlein, I am now, I have put in front of you a  
21 page. Do you recognize at the bottom of that page, in the  
22 sort of sand colored bar, there is a link, which is the link  
23 that you recited in your report,  
24 HTTP:setlab.cs.ucdavis.edu/papers/lo95.ps.

25 A. I see that.

1364

Heberlein - cross

1 establishing that if you go look at that link on their  
2 bibliography, it shows this article was published in 1995.

3 MR. ANDRE: He is trying to impeach this witness  
4 with this information, which doesn't impeach him, to start  
5 off. We have complained this was not proper prior art  
6 reference because they have not provided evidence that this  
7 paper was published.

8 THE COURT: Is it one of the references listed  
9 in the instructions the parties have proposed?

10 MR. ANDRE: It is.

11 THE COURT: You have agreed on those reference,  
12 I think?

13 MR. ANDRE: Yes.

14 THE COURT: I didn't see an objection. I don't  
15 know how you can object now.

16 MR. ANDRE: I am objecting to him trying to  
17 impeach this witness with something he didn't provide  
18 earlier. This witness testified he wasn't sure if it was  
19 available or not. That is his opinion. He didn't make an  
20 opinion one way or another. He just said, I don't know if  
21 it was available. He doesn't say it was or it wasn't.  
22 That's what he testified. That is consistent with his  
23 report. He is trying to impeach him with something that is  
24 not contested.

25 MR. HOLDREITH: Your Honor, I am going to ask

1366

Heberlein - cross

1 Q. That is the link to Dr. Lo's paper?

2 A. The one question I have remaining is, quite often, the  
3 documents posed online aren't exactly the same as the  
4 documents that were published in the journal.

5 Q. You recognize that that is the link that was in your  
6 report, isn't it?

7 A. I don't have that with me right offhand but I will  
8 trust you.

9 MR. HOLDREITH: Your Honor, may I approach with  
10 a copy of the witness' report?

11 THE COURT: Yes, you may.

12 BY MR. HOLDREITH:

13 Q. If you would like to refer to your own copy, it is  
14 Paragraph 265. Do you have that right there?

15 A. Yes.

16 Q. It's the same link. Right?

17 A. I believe it is.

18 Q. There is a typo in your report. It says, "edy." That  
19 is a typo, the link is "edu"?

20 A. Okay.

21 Q. Is that right?

22 A. Yes.

23 Q. In this bibliography from UC Davis, it says, Mr. Lo's  
24 paper was published in computers and security in 1985,  
25 doesn't it?

Heberlein - cross

Heberlein - cross

1 A. That the paper was. It would have been helpful to  
 2 have the actual computers and security publication. I don't  
 3 know if you have that offhand.  
 4 Q. It's right underneath that page I just gave you.  
 5 A. There we go. It looks different than the previous  
 6 one, the formatting.  
 7 Q. Different format. I am not going to have you go  
 8 through the exercise, Mr. Heberlein, right now of comparing  
 9 word for word. Your counsel can certainly ask you about  
 10 that.

11 This is the article found at the link that you  
 12 cited in your report. Right?

13 A. I did not cite this particular article. I cited the  
 14 link that you guys cited and I just said that link wasn't  
 15 available.

16 Q. Say that again.

17 A. When you guys produced your prior art, you said,  
 18 Here's the document that we are relying on and here's the  
 19 URL to go find out. When I looked, that URL did not exist  
 20 at the time of the prior art. That's what I am saying.

21 Q. But when you do look at that URL in the bibliography  
 22 at UC Davis, what you see is the article was published in  
 23 1985. Right?

24 A. What I see is, certainly, a paper was published. I  
 25 have not looked this particular paper and it is a different

1 A. Give me a second here.

2 Okay.

3 Q. And what you said is, this says, When a run-time tool  
 4 identifies a problem, it either stops the malicious program  
 5 or asks for human attention. Right?

6 A. That is one approach that people have used.

7 Q. So the tool can do two things. One thing it can do is  
 8 ask for human attention?

9 A. I see what you are saying. Yes.

10 Q. Or it could stop the malicious program?

11 A. It could stop the program. It doesn't know whether  
 12 it's malicious or not.

13 Q. It says right there it stops the malicious program.

14 Isn't that what it says?

15 A. Yes. It also says this approach is not -- simply not  
 16 viable for systems running without attention.

17 Q. That says that about run-time approaches, doesn't it?

18 A. That's what this entire paragraph is about is run-time  
 19 systems.

20 Q. And "run-time" is when you run it on the client  
 21 computer and you watch it run?

22 A. Generally, that's the case.

23 Q. And static analysis, that's what you do on the  
 24 gateway, when you look at the program code and the  
 25 instructions. Right?

1368

Heberlein - cross

1 format than I looked at.

2 Q. The title of that paper is, "Malicious Code  
 3 Filtering." Right?

4 A. There are a lot of papers with this type of title.

5 Q. That paper is titled, "Malicious Code Filtering."  
 6 Right?

7 A. Correct. I have seen other papers at UC Davis that  
 8 have various publications between them over time.

9 Q. The author of that paper is Mr. Lo, the lead author?

10 A. That is correct.

11 Q. In the department of computer science at Davis?

12 A. Oh, yes.

13 Q. Now, the Lo '94 paper is the one about telltale signs.  
 14 Do you remember that?

15 A. It included segments on that.

16 Q. In your view, Mr. Lo's work was only for a human  
 17 operator to review. Right? It wasn't for automatic  
 18 scanning?

19 A. It had components that would do preliminary scanning  
 20 automatically and produce the preliminary results for  
 21 further review by an analyst. They are pretty thorough on  
 22 stating that.

23 Q. And you pointed out or pointed to a page called,  
 24 "Related Work." Right? Which is Page 4 of Mr. Lo's  
 25 article, Exhibit 1264.

1370

Heberlein - cross

1 A. Generally, that's the case, although not exclusively.

2 Q. So for run-time approaches, you can't run without  
 3 attention. That's what Lo says?

4 A. Correct, in this particular area.

5 Q. Now, here is the page in Lo '94 about telltale signs.

6 It's Page 5. Doesn't Mr. Lo say that the telltale signs  
 7 should be simple enough so that their identification can be  
 8 mechanized?

9 A. I am waiting for you to highlight it.

10 Q. All right. Yes?

11 A. Yes, I see that.

12 Q. When Mr. Lo was identifying telltale signs, one of the  
 13 things he said is, Let's make them simple enough so that you  
 14 can identify them mechanically, not by human attention?

15 A. Correct. That was one of the preliminary steps to  
 16 help the analyst.

17 Q. What he says is it's mechanically, that's how you  
 18 identify the telltale signs?

19 A. Yes. I agree that, once again, the tool was designed  
 20 to help an analyst. The tool has to do something by itself.

21 Q. And one of the things it can do is stop malicious  
 22 code. Right?

23 A. This is a static analysis tool.

24 Q. And one of the things it can do is stop malicious  
 25 code. Right?

Heberlein - cross

1 A. I am not sure. Can you show me an example where it  
2 specifies that?

3 Q. That is the text we just read. If your counsel has  
4 more questions about that, I am sure he will ask.

5 Another reference you looked at was Ji '95?

6 A. That text was referring to other systems, not this  
7 code.

8 Q. You also looked at a patent to Mr. Ji in 1995. Right?

9 A. Yes, I did.

10 Q. That is Exhibit 1019. Do you have that?

11 A. Yes, I have it here.

12 Q. And you agree that Ji is a gateway that puts packets  
13 together and looks at them. Right?

14 A. I think I would agree with that.

15 Q. Now, one of your opinions in this case is that Ji  
16 doesn't give any motivation to combine with, for example,  
17 behavior analysis techniques?

18 A. To combine with the Lo paper.

19 Q. With the Lo paper, for example.

20 Here at Column 7 of the Ji patent, at about Line  
21 55, one of the things that the authors of the Ji patent say  
22 is those skilled in the art will also -- sorry, will realize  
23 that various other virus detection methods may be used.

24 That's one of the things he says. Right?

25 A. Yes. Yes. He just throws that out.

1372

Heberlein - cross

1 Q. And the Ji authors also recognize that there is such a  
2 thing as behavior-based interception. Right?

3 A. Could you highlight that section?

4 Q. It's Column 1, at about Line 58. That says, There is  
5 a virus detection method commonly referred to as behavior  
6 interception that monitors the computer system for important  
7 operating system functions such as write, erase, format  
8 disk, et cetera?

9 A. I see that.

10 Q. So Ji says, I use signature scanning at the gateway.  
11 Right?

12 A. Yes.

13 Q. He says, You could use other virus detection  
14 techniques. Right?

15 A. Yes.

16 Q. And he says, There is another virus detection  
17 technique, which is behavior inspection?

18 A. Behavior inspection at -- behavior analysis at  
19 run-time. I don't think it uses behavior inspection.  
20 That's part of the reason I identified that in the Lo '94  
21 paper, because that technique really isn't amenable to  
22 automated analysis.

23 Q. I know it's your opinion that Lo is not amenable to  
24 automated analysis?

25 A. No. Lo says the technique they are describing here is

Heberlein - cross

1 not amenable to automated analysis with that type of  
2 behavior.

3 Q. The prior art technique identified in Ji?

4 A. Correct.

5 Q. Ji says you can use whatever other virus detection  
6 technique you want?

7 A. Right. I am just saying the prior art you guys cited  
8 stated that approach was not a good approach for automated  
9 analysis.

10 Q. Doesn't Ji also have a configurable file for deciding  
11 what to do when you detect a problem?

12 A. For deciding what to do when you detect a problem? I  
13 am not aware of a particular cite, but if you can show it to  
14 me.

15 Q. If you look at Column 8, at about Line 6. Ji says,  
16 "The response of the FTP proxy server is determined  
17 according to user's needs and wants as specified in a  
18 configuration file."

19 Do you see that?

20 A. I see that.

21 Q. Ji also says, "This configuration file is preferably  
22 fully modifiable according to input from the user and stored  
23 in memory."

24 A. I see that.

25 Q. Ji says that. Now, you said one of the problems you

1374

Heberlein - cross

1 see in Chen is that, in Chen, the security policy is hard  
2 coded. You can't modify it?

3 A. In Chen, so we are talking about another reference  
4 here. You are not talking about this particular reference.

5 Q. You understand, right, that Ji and Chen Dr. Wallach  
6 combined together?

7 A. Right.

8 Q. And you said, Yeah, but in Chen, you can't modify the  
9 security policy. It's hard coded, didn't you?

10 A. Okay. But I think you are misrepresenting this  
11 particular policy. When we are looking at the '194 example,  
12 that there was the security profile that we would extract  
13 from the program, and then you would have the policy that  
14 would say whether I think that behavior is suspicious or  
15 not. This is saying, this particular policy is saying,  
16 Somehow we have detected that it's suspicious. Now what's  
17 the response policy?

18 So the policy is two different animals, once  
19 again. One policy which talked about in the patents in  
20 question, '194 is talking about a policy to determine  
21 whether the software is suspicious or not. And the  
22 reference you were referring to here in Ji '95 is a response  
23 policy to say, okay, What do I do once it's been determined  
24 that it's suspicious?

25 Q. Your view is that the security policy in the '194

Heberlein - cross

Heberlein - cross

1 you now, the steps here, you scan the macro using a first  
 2 instruction Identifier, in Step 620. Right?  
 3 A. Yes.  
 4 Q. And you determine, Is there a first suspect  
 5 instruction there?  
 6 A. That's what it says.  
 7 Q. Then you scan -- if there is a first suspect  
 8 instruction, you scan and look for a second suspect  
 9 instruction. Right?  
 10 A. That's what it says.  
 11 Q. And, finally, if you found the suspect instructions,  
 12 you flag the macro as infected by an unknown virus. Right?  
 13 A. Yes.  
 14 Q. And it's your opinion that that is not what the '194  
 15 patent does. Is that right?  
 16 A. That is correct.  
 17 Q. Do you know if that's what WebWasher does?  
 18 A. I do not know specifically in detail what WebWasher  
 19 does. The documents I looked at in the descriptions sound  
 20 very similar to the patents and less similar to this.  
 21 Q. Chen also has a Figure 9, could you look at that.  
 22 A. Yes.  
 23 Q. Do you have any opinion as to whether these are  
 24 suspicious computer operations shown in Figure 9 of Chen?  
 25 A. These are suspicious computer operations. But these

1380

Heberlein - cross

1 are not suspicious computer operations pertaining to the  
 2 specific downloadable. That is the important part of the  
 3 patents.  
 4 Q. Chen looks for these suspicious instructions in a  
 5 downloadable. Would you agree with that?  
 6 A. Chen extracts these -- looks for these suspicious  
 7 computer operations in a downloadable.  
 8 Q. And Chen can detect both known and unknown viruses.  
 9 Would you agree with that?  
 10 A. I would agree with that, of the type of macros they  
 11 are talking about here.  
 12 Q. And the downloadable -- the macros are downloadables.  
 13 You agree with that. Right?  
 14 A. They can be downloadables, yes.  
 15 Q. The suspect instructions, if Chen finds them, Chen  
 16 removes them. Right?  
 17 A. I believe that's the case, yes.  
 18 Q. Specifically, if we look at Column 3, at about Line  
 19 55, Chen has a number of options for what you can do,  
 20 including correcting the file or notifying the user. Right?  
 21 A. Yes, I see that.  
 22 Q. So Chen says, If I find a virus, I am either going to  
 23 delete that macro or fix it. Right?  
 24 A. Yes, I don't disagree with that.  
 25 Q. And deleting the macro or fixing it is a way of not

1 permitting that macro to execute if it violates a security  
 2 policy, isn't it?  
 3 A. I would agree with that.  
 4 Q. Now, you know that Chen was not considered by the  
 5 patent examiner during the prosecution of the '194 patent.  
 6 Right?  
 7 A. The -- I believe the Chen document was provided prior  
 8 to the '194 being awarded. But I don't know of it being  
 9 examined by the Patent Office itself.  
 10 Q. Are you referring to the Chen on the face of the '194  
 11 patent?  
 12 A. No. I believe, is it the '780 in which they reference  
 13 this one?  
 14 Q. Okay. I want to ask you specifically about '194. You  
 15 know that in the '194 patent, the Patent Office never looked  
 16 at this Chen patent. Right?  
 17 A. Okay.  
 18 Q. And you know that there is a Chen, a different  
 19 inventor who is listed on the front of the '194. Different  
 20 inventor, different patent?  
 21 A. Okay. Again, I am not disputing that.  
 22 Q. Chen says --  
 23 THE COURT: Counsel, before you ask that  
 24 question, let me see counsel at sidebar.  
 25 (The following took place at sidebar.)

1382

Heberlein - cross

1 THE COURT: How much more do you have?  
 2 MR. HOLDREITH: I think maybe ten more minutes.  
 3 THE COURT: We will have to finish this  
 4 tomorrow. I have a criminal trial starting Wednesday. You  
 5 guys are going to be out of here. The jury may still be  
 6 deliberating.  
 7 So let's wrap this up for the day. We are going  
 8 to do the plea. I have a 5:00 discovery dispute  
 9 teleconference because some depositions are being held in a  
 10 case we are starting a little later. Then we will come back  
 11 and deal with the jury instructions.  
 12 MR. HOLDREITH: We are at your convenience on  
 13 everything else.  
 14 MR. SCHUTZ: It will be after 5:00.  
 15 THE COURT: I hope the 5:00 won't take very  
 16 long. It depends how much they have been arguing about.  
 17 And they have been arguing about a lot.  
 18 So let's go ahead and wrap this up. You can  
 19 leave your stuff. The Marshal should be up in a few moments  
 20 with the prisoner.  
 21 THE COURT: Ladies and gentlemen, we are going  
 22 to have to end it here today. We have a little bit more. I  
 23 think this is our last witness. How many more witnesses do  
 24 you anticipate on your rebuttal?  
 25 MR. ANDRE: This is a rebuttal on the validity.



Heberlein - cross

Heberlein - cross

1 THE COURT: I think that's right.

2 MR. SCHUTZ: It is infringement by  
3 functionality.

4 THE COURT: I agree. Go ahead.

5 MR. SCHUTZ: So I mean, we would not necessarily  
6 have to have this language here if we got the functionality  
7 instruction later on.

8 THE COURT: Let's talk about the functionality  
9 instruction. Go ahead.

10 MR. SCHUTZ: If we jump to that, Your Honor, I  
11 believe that is No. 19.2.

12 THE COURT: At Page 28.

13 MR. SCHUTZ: There are a couple of cases that we  
14 think are spot on. I think there is even one by Your Honor  
15 that is relevant.

16 THE COURT: Isco v. Conductus.

17 MR. SCHUTZ: This is a Federal Circuit case,  
18 Southwest Software v. Harlequin, Incorporated. For the  
19 record, the cite is 226 F.3d 1280. I will get the exact  
20 language here.

21 THE COURT: The pin cite is at 1291.

22 MR. SCHUTZ: There is also some discussion as  
23 1287 indicates.

24 Basically, the bottom line is, if the function  
25 has been de-featured, even though it may be on the product,

1 functionality objection you propose is at 29. But I think  
2 you correctly point out that this is tied up in Finjan's  
3 objection and your proposal to the general, as far as the  
4 general.

5 MR. SCHUTZ: Right. Our attempt here is not to,  
6 you know, argue our case through the jury instructions. If  
7 the Court wanted to lift language out of the Southwest  
8 Software opinion, which is the law set down, we would have  
9 no objection to that. The point we wanted to get across I  
10 think Your Honor understands.

11 THE COURT: What I am going to do on these two  
12 instructions is, I haven't had a chance yet to review the  
13 cases, including my own, again, so I will look at that  
14 overnight. Unfortunately, I think we are going to have a  
15 little time in the morning. It appears that I can announce  
16 a ruling and we still will have time for the plaintiff to  
17 get together a set of instructions without delaying the  
18 jury. The other work can be done, it seems to me, and we  
19 can, Ms. Kobialka, just await word from me on this  
20 particular issue.

21 I understand the arguments. I do want to take a  
22 moment to review Southwest and the other cases.

23 Did you want to say something?

24 MS. KOBIALKA: Your Honor, I just want to  
25 respond, because we do have claims regarding program code.

1388

Heberlein - cross

Heberlein - cross

1 but de-featured, in other words, in our parlance, locked and  
2 unavailable, then it is not infringing. That is our  
3 position.

4 We think this case is actually spot on point.

5 THE COURT: Do you think there is some dispute  
6 of fact on that issue?

7 MR. SCHUTZ: Yes, because what Mr. Parr did is  
8 he took every sale of WebWasher, whether proactive scanning  
9 in the malware module was paid for or not, and included it  
10 in his royalty base.

11 THE COURT: He did.

12 MR. SCHUTZ: That is really where the dispute  
13 comes down. That is the big difference between, I think the  
14 number was 49 million for software versus Mr. Degen's 24  
15 million. That is where it comes into play. If that is not  
16 deemed to infringe, it about halves the royalty base that  
17 Mr. Parr used.

18 That is why it is important.

19 THE COURT: In addition to that, would you  
20 address the Finjan objection which they articulated, I guess  
21 it's at Page 20.

22 MR. SCHUTZ: 20 or 29?

23 THE COURT: We are talking about the same issue,  
24 I think.

25 You are right. The specific objection to the

1 This is very confusing, I think I think, for the jury,  
2 because it doesn't matter whether or not this functionality  
3 is on or off. That is a problem.

4 THE COURT: That's right. I need you to respond  
5 to that, Mr. Schutz.

6 MR. SCHUTZ: I don't believe -- and I have to  
7 double-check. I know Your Honor is going to look at this.  
8 I don't think it makes any difference under Southwest,  
9 because the whole purpose of de-functioning goes to program  
10 code. It really doesn't distinguish between method or not.  
11 If it is de-functioned and taken off, then it is not  
12 infringement. I will double-check. I don't think it makes  
13 a difference whether it's program code or whether it is the  
14 code never works because of a de-function.

15 THE COURT: Are you sure you don't want to have  
16 Ms. Kobialka handle this? She seems --

17 MS. KOBIALKA: I don't believe --

18 THE COURT: You are going to learn one day.

19 MR. ANDRE: I already know that, Your Honor. I  
20 am worn down today.

21 MS. KOBIALKA: With respect to the Isco case and  
22 these other cases that they cite to, this is a situation  
23 where the code is locked or there is some sort of alteration  
24 that occurs such that you would have to alter it in order to  
25 infringe. That is not our contention in this case.

1390

Heberlein - cross

Heberlein - cross

1 What we are really dealing with are program code  
2 claims, system claims that are going to infringe regardless  
3 of whether they are used or not.

4 THE COURT: Regardless of whether they are  
5 locked or unlocked.

6 MS. KOBIALKA: That's correct.

7 THE COURT: I think it would make sense for me  
8 to take a look and make sure on this before I finally rule.  
9 So I will do that.

10 So, then, let's go on forward. The next one I  
11 have is 18. Is that correct? This is Finjan's proposed  
12 instruction 18 at Page 22.

13 If I skip something, you need to tell me.

14 MR. SCHUTZ: Yes, Your Honor. I believe with  
15 regard to 16 there is the issue of activity outside the  
16 United States, and government sales was raised.

17 MR. ANDRE: No. 18 is just about the --

18 MR. SCHUTZ: I am talking about 16.

19 THE COURT: Mr. Schutz, you are right, because  
20 in Secure's proposed instruction, I think appropriately,  
21 there is the sentence in the first paragraph, the last  
22 sentence, do you see that, that was omitted from Finjan's.  
23 Is that what you are talking about, Mr. Schutz?

24 MR. SCHUTZ: Yes.

25 THE COURT: Was that inadvertent, Ms. Kobialka?

1392

Heberlein - cross

1 MS. KOBIALKA: Let me just try and find it.

2 THE COURT: Look at 18. Read the first  
3 paragraph, last sentence, Page 18.

4 MR. ANDRE: Your Honor, may I? It's not quite a  
5 correct statement of the law, because you can make something  
6 outside the United States and import it in, and it would  
7 still infringe. Or you can make something in the United  
8 States and export it out. It says it has to be made, used,  
9 offered for sale or sold outside the United States. Our  
10 contention is, some of the source code may be made in  
11 Germany but sold in the United States. This language is not  
12 exactly correct.

13 THE COURT: What do you want to propose?

14 MR. SCHUTZ: I have a one-word clarification. I  
15 think if it says, if the patented invention is not made,  
16 used, offered for sale, or sold inside -- I guess two  
17 words -- the United States, the activity should not be  
18 considered infringing. Two-word change. That would cover  
19 all of the things. Two-word change.

20 THE COURT: You got that, Ms. Kobialka?

21 MS. KOBIALKA: Yes.

22 THE COURT: Mr. Schutz, did you say there was  
23 another remaining issue?

24 MR. SCHUTZ: They flagged an issue. It was on  
25 the government, sales by the government.

1 THE COURT: Was that in this one?

2 MR. SCHUTZ: Sorry.

3 MR. ANDRE: Judge, on this one, for the first  
4 time the jury is going to hear something called a Finjan  
5 Mirage product, the Finjan Internet 1 Box. Those products  
6 have not come up in all, the Finjan Mirage has not been  
7 mentioned, nor has the Internet 1 Box. We don't know where  
8 they are coming from.

9 THE COURT: He makes a point that I overlooked  
10 here, Mr. Schutz.

11 MR. SCHUTZ: Your Honor, that parenthetical can  
12 be taken out. I think that it is an historical artifact.  
13 The Finjan 1 Box can come out as well.

14 THE COURT: I am glad you reminded me of that.  
15 I think that completes 16 other than the ruling  
16 I have to make.

17 I think we can move on to Page 22, then. The  
18 jury instruction No. 18 proposed by Finjan, I have already  
19 indicated that I disagree with Secure's position on DOE. I  
20 think that that is the principal basis of the objection  
21 here. Is that correct? I may have misspoken. Maybe I am  
22 looking at something else. Hold on a second.

23 I am talking about the method claims. Direct  
24 infringement, literal infringement. I am at Page 22.

25 MS. KOBIALKA: Page 2 is Finjan's proposed 18.

1394

Heberlein - cross

1 We don't have a proposal for the method claim. In their  
2 counterproposal they have it.

3 THE COURT: That's what's going on.

4 MR. SCHUTZ: The issue there, Your Honor, is  
5 there is a dispute, as you caught, I think, yesterday, as to  
6 whether method steps must be performed in order. And we  
7 have inserted language that we believe is directly out of  
8 the case law on that. That is on Page 24, second paragraph.

9 THE COURT: Yes.

10 MR. HANNAH: Your Honor, I have a case from this  
11 district, the Ampex versus Eastman-Kodak case. It states in  
12 that case that if there are two steps within a method claim  
13 which must be performed in order, that all the steps in the  
14 method claim must be performed in order. And so, in this  
15 case, two of the steps -- all of the steps must be performed  
16 in order, it is our contention, to get the A, B, C, D.

17 But even more specifically, if you look at the  
18 '361, which is the one under contention here, about the  
19 method steps and which limitations, that they must be  
20 performed in order, the querying requires that it must query  
21 and it must perform a second step. If you took those two  
22 out of order -- what they are trying to do is rearrange the  
23 claim so it's B, A, C, D. If you remember, that's what  
24 happened with Dr. Wallach. They are trying to push their  
25 position on the jury with this construction by saying you

Heberlein - cross

Heberlein - cross

1 about two-thirds of the way down where it says, Accordingly  
2 we overrule the standard, et cetera.

3 THE COURT: It's at the top of the version I  
4 have, which is a Westlaw printout. The right-hand column,  
5 Accordingly, we overrule the standard set out in Underwater  
6 Devices and hold that proof of willful infringement  
7 permitting enhanced damage requires at least a showing of  
8 objective recklessness.

9 MR. SCHUTZ: That's correct, sir.

10 THE COURT: Both sides agree you have got to  
11 show objective recklessness. The question is how do you  
12 tell the jury what that means.

13 You don't resist the notion, do you, Mr. Schutz,  
14 that the language that is proposed defines objective  
15 recklessness? Don't let me minimize your objection. You  
16 seem to be suggesting that we need to say, well, the  
17 standard that has to be met is that of objective  
18 recklessness and here is what that means.

19 MR. SCHUTZ: Exactly, Your Honor. That is what  
20 I am proposing the Court do, because that's what Finjan  
21 says.

22 THE COURT: Why does that heighten -- I don't  
23 mean to mischaracterize your position, Ms. Kobialka. But I  
24 am not quite sure that I understand how that heightens the  
25 burden.

1 They do say, we leave it to future cases to further develop  
2 the application of the standard.

3 MR. SCHUTZ: It may be this case.

4 THE COURT: It very well could be.

5 (Laughter.)

6 THE COURT: District Judges, it is the bane of  
7 the trial judge's existence when the Appellate Court makes  
8 those kinds of statements.

9 In any event, I did have a question on Page 32  
10 as to the last sentence. The fact that you may have  
11 determined that the infringer was wrong and that the patent  
12 is infringed does not alone mean that infringement was  
13 willful.

14 I am wondering if The fact that you may have  
15 determined that the patent is infringed does not alone mean  
16 that infringement was willful wouldn't be a more appropriate  
17 way to say that.

18 MS. KOBIALKA: That would be fine, Your Honor.

19 THE COURT: Read the sentence as it currently  
20 stands, it says the infringer was wrong. I have eliminated  
21 that in my proposed change to read, the fact that you may  
22 have determined that the patent is infringed does not alone  
23 mean that the infringement was willful.

24 MR. SCHUTZ: We are fine with that, Your Honor.

25 THE COURT: Then we are --

1408

Heberlein - cross

Heberlein - cross

1 MS. KOBIALKA: As I understood what he was  
2 proposing is that the language would be, to establish  
3 willful infringement, and this language of reckless  
4 disregard, that that is somehow suggesting reckless  
5 disregard has to be proven in addition to this objectively  
6 high likelihood.

7 THE COURT: He is saying, look, here is the  
8 standard you have to meet, ladies and gentlemen, that Finjan  
9 has to meet or that you have to find. That is that there is  
10 evidence sufficient to support the conclusion that this  
11 standard has been met. That is the standard being objective  
12 recklessness. That you can find that the defendants acted  
13 in an objectively reckless manner. Here is what that means.

14 Then you go ahead and provide, you lifted the  
15 language appropriately that defines it.

16 I am not quite sure that I understand.

17 MS. KOBIALKA: We can do that if we can have the  
18 sentence that says this is what objective recklessness  
19 means.

20 THE COURT: Yes, to make clear, so as not to  
21 confuse the jury. I think that is your concern.

22 MS. KOBIALKA: Absolutely.

23 THE COURT: I think Mr. Schutz agrees with that.

24 MR. SCHUTZ: I think that is what I propose.

25 MS. KOBIALKA: This will give you heartburn.

1 MR. SCHUTZ: I hate to go back. There is one  
2 thing, I think it was in, Your Honor, No. 18, we had some  
3 language on Page 24 in the second paragraph of our  
4 instruction. In that paragraph, it begins, A method claim  
5 of a patent is directly infringed only by one practicing or  
6 performing the patented method. And this would be the  
7 language, they have got, it has to be performed in order.

8 THE COURT: Why are we talking about this again?  
9 Isn't this the issue I need to look at?

10 MR. SCHUTZ: No, it is not. This one has to  
11 deal with the issue of inducing infringement. That is the  
12 legal issue this relates to. So, in other words, a method  
13 claim, they have to show that there has been someone who has  
14 performed a method, and we will be arguing they haven't  
15 shown that.

16 In other words, the mere fact we sell a  
17 WebWasher, a product, doesn't mean that -- and they have not  
18 shown evidence of any user actually performing the method  
19 steps. That's why we ask that that sentence be included.

20 MR. HANNAH: Your Honor, this is the same issue  
21 that I had.

22 We don't believe that it is proper to  
23 specifically point out a method claim in this instance.

24 THE COURT: Because there are other types of  
25 claims.

1410



Heberlein - cross

Heberlein - cross

1 MR. HANNAH: We have system claims, program  
2 claims.  
3 THE COURT: I agree. I am not quite sure.  
4 I do agree with that, Mr. Schutz. There are  
5 other types of claims, not just method claims. Why are we  
6 calling out method claims?  
7 MR. SCHUTZ: Because method claims have unique  
8 requirements from other claims. The system claims, all they  
9 have to do is show that the system is --  
10 THE COURT: We are back to the ordering issue.  
11 Right?  
12 MR. SCHUTZ: This is separate and distinct from  
13 ordering.  
14 THE COURT: I am being obtuse.  
15 MR. SCHUTZ: The issue under method claims is  
16 they have to show the method was performed by someone, that  
17 is a user. And so this issue is separate and distinct.  
18 And, yes, there are method claims and system claims and  
19 apparatus claims.  
20 THE COURT: I got you. Counsel says that  
21 doesn't really address that requirement.  
22 MR. HANNAH: That is incorrect. It depends on  
23 how the method claim is written. You can write a method  
24 claim like the defendants have which requires the user to  
25 perform the steps of the method, or you can write a method

1 objection. We will go with their list. Make life easier  
2 for everybody.  
3 THE COURT: Did you get that, Mr. Schutz?  
4 MR. SCHUTZ: We talked about agreement. I think  
5 there was also going to be a modification to just a specific  
6 reference to the check points.  
7 MR. ANDRE: That's correct.  
8 THE COURT: The next one I have, we are all the  
9 way up to damages.  
10 MR. SCHUTZ: Obviousness.  
11 THE COURT: Did I miss obviousness?  
12 MR. ANDRE: Page 42, Your Honor.  
13 THE COURT: Page 42. How could I miss that?  
14 Okay. What is the rub here? What is the nub of the  
15 disagreement? I just missed it.  
16 MR. ANDRE: Your Honor, the instructions are  
17 pretty much identical, with respect, if you look at Finjan's  
18 proposal on Page 42, the Instruction 27, the first, second,  
19 third and fourth paragraphs are all pretty much identical to  
20 what is in Secure Computing's. What is different is our  
21 fifth paragraph, and it would be their fourth paragraph they  
22 kind of interjected there.  
23 We both just lifted language from KSR, with two  
24 exceptions in that, in Secure Computing's proposal, the  
25 first sentence and the last sentence of the fourth paragraph

1412

Heberlein - cross

Heberlein - cross

1 claims in which it requires the process of the apparatus  
2 itself to perform the method of the claim.  
3 For instance, in this case, the '194 patent, it  
4 requires a computer-based method of a gateway application,  
5 and then the steps that have to be performed by the gateway.  
6 Another instance which you could have had, which  
7 would have been bad prosecution, bad people writing the  
8 patents, if you had a user who had to click on a button  
9 which received a downloadable. That would be another type  
10 of method claim.  
11 They are trying to put their argument before the  
12 jury in the jury instructions, which we believe is  
13 inappropriate.  
14 THE COURT: Again, you have prevailed. I think  
15 he is right. I think there is a distinction in the  
16 arguments that are being made here. I think counsel has  
17 correctly stated the current status of the law, as I  
18 understand it, on this particular subject.  
19 I am going to side with Finjan on this one.  
20 Let's move on from 18. We are up to prior art.  
21 MR. ANDRE: That's correct, Your Honor. We were  
22 objecting to this because we don't think the prior art that  
23 was not used to try to invalidate the patent should be  
24 before the jury. Since we got kind of waylaid today and we  
25 haven't put on our prior art yet, so we are withdrawing our

1 are misstatements from KSR. As such, we believe our  
2 instruction is more in line with the KSR case.  
3 THE COURT: Secure?  
4 MR. SCHUTZ: Your Honor, I think the only  
5 difference, the one we have a substantive disagreement over  
6 is our paragraph on Page 46, it's the fourth paragraph, that  
7 includes the obvious to try concept that was right out of  
8 the KSR case.  
9 So --  
10 THE COURT: Where it says a patent claim can be  
11 proved obvious by showing?  
12 MR. SCHUTZ: Yes, if it is obvious to try, the  
13 KSR case says the same, I am quoting the KSR case, The same  
14 restricted --  
15 MS. KOBIALKA: What page?  
16 THE COURT: 46.  
17 MR. SCHUTZ: The KSR case, I have got a Westlaw  
18 cite. I believe that it's 1742. So it would be 127 Supreme  
19 Court 1742. And just shortly after that -- I am sorry. It  
20 is 1742 but it's toward the end of Page 1742. Where the  
21 Court says, I believe this is at Headnote 6, The same  
22 constricted analysis led the Court of Appeals to conclude in  
23 error that a patent claim cannot be proved obvious merely by  
24 showing the combination of elements was obvious to try.  
25 Then it goes on, and concludes with, In that

1414



Heberlein - cross

1 break. It may happen by the lunch break, it sounds to me  
2 like what you are talking about. I didn't realize that you  
3 were planning this comprehensive a rebuttal case. Go ahead.

4 MR. ANDRE: We just had the one rebuttal expert  
5 on their claims of invalidity, then the one on their patents  
6 and that's it. We have one very short fact witness in  
7 between. There is only the three witnesses. We obviously  
8 didn't anticipate it going this long, either.

9 THE COURT: It is going to take me about an hour  
10 and 15 minutes to instruct the jury, roughly, in that  
11 neighborhood. Unless you don't want me to instruct the  
12 jury.

13 It is not unheard of, by the way, as you may  
14 know. There are all kinds of ways to instruct the jury.

15 But I tend to prefer that the jury sit and  
16 listen while I give instructions.

17 I don't know how -- if you even know how long  
18 your closings are planned for at this point.

19 MR. SCHUTZ: I think we will have to keep our  
20 closings relatively short, if we are starting closing at  
21 2:00. I think we each have an hour and that's it,  
22 basically.

23 THE COURT: I think that's right, Mr. Schutz.

24 MR. SCHUTZ: An hour is more than enough for me,  
25 Judge.

Heberlein - cross

1 THE COURT: That is fine. Mr. Holdreith is more  
2 than capable of dealing with questions and issues that might  
3 come up. And they might. They probably will come up. Mr.  
4 Andre, you need to make sure somebody is here from your  
5 team, because I know you have other matters to get on to.

6 MR. ANDRE: I will be here, Your Honor.

7 One last housekeeping matter. On the verdict  
8 form, there are some objections that are still interposed.

9 THE COURT: I think our discussion suggests how  
10 those matters should be handled by counsel.

11 MR. ANDRE: Agreed, Your Honor. I wanted to  
12 make sure that would be okay with Your Honor, if we cleaned  
13 up the verdict form and it tonight or tomorrow morning.

14 THE COURT: See you in the morning, counsel. I  
15 don't think there is a need for us to meet at 8:30. I think  
16 we talked about what we need to talk about. Right?

17 MR. SCHUTZ: I don't think there is anything --

18 MR. ROVNER: Your Honor, you are going to give  
19 us your ruling on the functionality. It is our  
20 responsibility to turn around the jury instructions. That  
21 will be tomorrow at some point.

22 THE COURT: Why don't we meet at a 8:30.

23 (Court recessed.)

24 - - -

25 Reporter: Kevin Maurer

1432

Heberlein - cross

1 THE COURT: I am going to impose an hour  
2 limitation on the closing speeches. I am going to give you  
3 15 minutes on rebuttal.

4 MR. ANDRE: Thank you, Your Honor.

5 MR. SCHUTZ: Just a clarification. Does he get  
6 an hour and 15 or 45 and 15?

7 THE COURT: I am going to give him an hour and  
8 15, since they bear the burden. I will give him an hour and  
9 15. I am going to hold you very much -- that is going to  
10 be, on both counsel, it is going to be an hour on your  
11 opening closing, Mr. Andre, an hour in responsive closing,  
12 and 15 on the rebuttal. That's it. As it is, this jury is  
13 likely going to have to come back on Wednesday -- we have  
14 accommodations for that -- to begin its deliberations, I  
15 expect, or probably to continue its deliberations, if they  
16 do get started.

17 So you are going to want to plan for somebody  
18 being here.

19 MR. SCHUTZ: Your Honor, may I suggest  
20 45 minutes and an hour? That takes a half-hour out. That  
21 half-hour may be -- I think the jury --

22 THE COURT: I will go with that. That is fine,  
23 an hour, 45 minutes. That's good.

24 MR. SCHUTZ: As a housekeeping matter, I have to  
25 go back to Minneapolis. I have another trial.

Heberlein - cross

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1434

1435

1 IN THE UNITED STATES DISTRICT COURT  
2 IN AND FOR THE DISTRICT OF DELAWARE  
3  
4 FINJAN SOFTWARE LTD., : Civil Action  
5 : No. 06-369 (GMS)  
6 Plaintiff, :  
7 v. :  
8 SECURE COMPUTING CORPORATION, :  
9 CIBERGUARD CORPORATION, :  
10 WEBWASHERE AG and DOES 1 :  
11 THROUGH 100, :  
12 Defendants. :  
13  
14

15 Wilmington, Delaware  
16 Tuesday, March 11, 2008  
17 8:50 a.m.  
18 Day Seven of Trial  
19  
20  
21

22 BEFORE: HONORABLE GREGORY M. SLEET, Chief Judge,  
23 and a Jury

24 APPEARANCES:

25 PHILIP A. ROVNER, ESQ.  
Potter Anderson & Corroon LLP  
-and-  
PAUL J. ANDRE, ESQ.,  
LISA KOBIALKA, ESQ.,  
JAMES HANNAH, ESQ.,  
MEGHAN WARTON, ESQ.,  
KRIS KASTENS, ESQ., and  
HANNAH LEE, ESQ.  
King & Spalding  
(Silicon Valley, California)  
Counsel for Plaintiff

1 THE COURT: Good morning. Please be seated.

2 All right. Here are the rulings on the  
3 remaining jury instruction issues.

4 As to No. 16, I am going to side with Finjan's  
5 position on this. I was working from Secure's instruction.  
6 I am going to eliminate the entirety of the last paragraph  
7 except the last sentence, insert it as the last paragraph in  
8 the Finjan, in the proposed 16. You made a bit of a mess,  
9 Finjan, of the last sentence. You might want to proofread a  
10 little more carefully next time.

11 That means that 19.2 will not be given. That  
12 carries forward, the same line, same ruling will carry  
13 forward in the damages instruction as well.

14 As to 47, proposed Finjan 48, I am going to  
15 strike it. I am going to give Finjan's proposed 70. I  
16 don't know why you didn't number them both 47. I guess it  
17 was just to pluck my nerves. But we are going to give 48,  
18 Secure's instruction. I am rejecting Finjan's 47.

19 I think Secure's position is the better  
20 position, based on my reading of the law.

21 And there was a marking. I am going to overrule  
22 Secure's objection, go ahead and give the marking  
23 instruction. If I am wrong and you convince me I am wrong,  
24 I can correct that later on. But you are going to have to  
25 deal with that now. Right now, given the amount of time

1436

1 APPEARANCES (Continued):

2 FREDERICK R. COTTRELL, III, ESQ., and  
3 KELLY E. FARNAN, ESQ.  
4 Richards, Layton & Finger  
5 -and-  
6 RONALD J. SCHUTZ, ESQ.,  
7 CHRISTOPHER A. SEIDL, ESQ.,  
8 TREVOR J. FOSTER, ESQ., and  
9 JAKE M. HOLDREITH, ESQ.  
10 Robins, Kaplan, Miller & Ciresi, L.L.P.  
11 (Minneapolis, MN)  
12  
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14  
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Counsel for Defendants

1438

1 that I had to deal with the issues, that is the best rulings  
2 I can -- that is the way I see the rulings at this point.

3 All right. Are you ready for the jury?

4 With that, I expect that we can get the  
5 instructions in shape, give them to the other side, and get  
6 sufficient copies, and we will instruct them as soon as we  
7 are able.

8 The witness can resume the stand.

9 All parties' objections have been acknowledged  
10 by the Court and reserved. The Court has ruled as it has.  
11 Clearly, in my view, I am going to be very disappointed if  
12 either of you goes up to the Federal Circuit on any of these  
13 waiver issues. I don't think either party has waived  
14 anything. You may have waived the issue of marking. I know  
15 that is part of the marking. There is just no evidence.  
16 Insofar as preservation of issues for appeal, waivers, I  
17 just cannot imagine.

18 But maybe.

19 Again, just to recapitulate, with regard to  
20 closings, plaintiffs will have a total of an hour, the  
21 defense will have 45. If you want to rebut, you are going  
22 to have to reserve a portion of the hour.

23 MR. ANDRE: Thank you, Your Honor.

24 THE COURT: We are still waiting for one. Why  
25 don't we just relax for a few moments.

Jaeger - direct

Jaeger - direct

1 request, what the patent does is it says, you know, we have  
2 this -- you have information about your organization  
3 oftentimes in a directory server, so we will talk about this  
4 LDAP directory server and what sort of things are in it in  
5 more detail later. The idea is there is useful information  
6 in here for making a determination whether this packet  
7 should be authorized.

8 So in this patent, they advocate the firewall  
9 using this information from the directory server at the time  
10 the request is made.

11 Then the next one, if the firewall authorizes  
12 this, if they find information in the directory server, that  
13 describes you, and there is also a process of authenticating  
14 the specific person to a specific rule -- I am sorry, for  
15 authenticating a specific person, and if that person is,  
16 let's see -- there is an authentication process, basically,  
17 where there may be information in the directory that helps  
18 determine whether this person is allowed to make this  
19 request based on the identity of this person.

20 The request is made. If it is authorized, it  
21 will go out to the Internet and get the request, fulfill the  
22 request and you will get the response.

23 Q. Is it fair to say that this patent is about how to  
24 determine whether a client's outbound request is permitted?

25 A. That's correct.

1 request.

2 Q. And do you have an opinion whether or not the Finjan  
3 NG appliances infringe the asserted claims of the '361  
4 patent?

5 A. My opinion is that they do not infringe the '361  
6 patent, the NG appliances do not infringe the '361 patent.

7 Q. Based on your review of the materials, could you just  
8 describe for the jury what the NG appliances are, how they  
9 work?

10 A. Okay. So the NG appliance is an application, it  
11 basically will receive packets sent over the network, but  
12 these packets will be composed into a request. So the  
13 problem that they are trying to solve with this product that  
14 you have difficulty solving with the firewall is that, in  
15 order to determine whether a URL is okay, the attacker may  
16 do things to modify this, the way this URL is sent, so they  
17 can break it up into really small packets. They could do  
18 things to try to confuse the firewall.

19 So it's difficult for firewalls to figure out  
20 how to authorize requests on a packet-by-packet basis.

21 Whereas if you compose these packets back  
22 together into the original URL request, at basically what is  
23 called the application layer, which is what the NG  
24 appliances will receive, then you will see the actual  
25 request. And you will see what it looks like to the web

1464

Jaeger - direct

Jaeger - direct

1 Q. Now, looking at this diagram here, it looks like we  
2 have two components. Is that right?

3 A. That's right.

4 Q. There is the firewall, which is what I am referring to  
5 when I say two components, there is the firewall and then  
6 there is the directory server or server that contains the  
7 directory?

8 A. That's right.

9 Q. We have heard this term firewall used a lot. I just  
10 want to get your understanding of what you mean by firewall.

11 A. All right. So basically, as I said before, when the  
12 client computer is going to send something, you might ask  
13 for a web page or something like this, it is going to break  
14 down your request, no matter how big it is. If it is too  
15 big, it can't send it in one request. So it may have to  
16 break it down into separate little chunks that it's going to  
17 then send using the networking hardware. Those chunks are  
18 called packets.

19 It is going to break these down into packets and  
20 put it on, think of it like a wire, you need some other  
21 components, but it's going to eventually go to a firewall  
22 component in this patent.

23 The firewall component is going to look at each  
24 of these packets and make a decision based on information in  
25 the directory server whether you are allowed to send this

1 system, rather than having to guess at, you know, is there  
2 another packet? Do all of these combined together meet the  
3 requirements for really testing whether this is a legitimate  
4 request or not?

5 So this NG appliance will look at the request  
6 based on having the full application level request. It will  
7 see it like the system will see it on the other end.

8 Q. Well, let's turn to the asserted claims, which are the  
9 '361, Claims 1 through 5, 7 through 12, 14 and 15.

10 What is the basis for your opinion that the NG  
11 appliances do not infringe the '361 patent claims?

12 A. So my opinion is that the NG appliance does not  
13 infringe the '361 patent because the NG appliance does not  
14 include a server in the product.

15 Q. Why don't we do this. Could we show G-121, so we can  
16 actually look at the claim language here.

17 A. Okay.

18 Q. So this element that you just mentioned, the server,  
19 does that appear in Claim 1?

20 A. Yes, it does. It is the first sub-bullet -- there is  
21 no bullet, but sub-item, element, I guess you might say.

22 Q. It reads a server having at least one directory that  
23 can be accessed using a network protocol, said at least one  
24 directory being configured to store information concerning  
25 an entity's organization.

1466

Jaeger - direct

- 1 Is that correct?
- 2 A. That's correct. And the NG appliance does not include
- 3 such a server.
- 4 Q. And is it your understanding that if that element,
- 5 that entire first element, if you can highlight the whole
- 6 thing, if that doesn't appear in Claim 1, if it's completely
- 7 missing from the NG appliance, how does it apply to the
- 8 dependent claims, which are Claims 2 through 7?
- 9 A. My understanding is that the dependent claims depend
- 10 on the first claim, the independent claim being infringed.
- 11 So if the independent claim is not infringed, then the
- 12 dependent claims will not infringe.
- 13 Q. Is a directory server needed for Finjan's NG
- 14 appliances?
- 15 A. It is not needed, no.
- 16 Q. Why don't we take a look at a DTX-1069.
- 17 Do you recall seeing this document previously?
- 18 A. Yes, I do.
- 19 Q. Is it your understanding this is a document that Dr.
- 20 Wallach used in his trial testimony?
- 21 A. That's my understanding.
- 22 Q. Why don't we turn to 10-1 and 10-2. Do you recognize
- 23 these pages?
- 24 A. Yes.
- 25 Q. What are these pages about? What does this tell you?

1468

Jaeger - direct

- 1 A. What this page tells me is that there is an interface
- 2 provided in the NG appliance for an administrator to add new
- 3 users or new groups to the appliance manual.
- 4 Q. So it's done manually?
- 5 A. In this case, yes.
- 6 Q. As a result, there is no directory server?
- 7 A. You don't need a directory server to do this, no.
- 8 Q. Can the NG appliances be configured to work with a
- 9 directory server, let's say, for another company?
- 10 A. Yes, they can.
- 11 Q. Why don't we go to the next point that you had with
- 12 regard to your opinion?
- 13 A. Okay. So the next point is that it's my opinion that
- 14 the NG appliance does not infringe because it's not a
- 15 firewall.
- 16 Q. Why don't we take a look at G-121. Is that the last
- 17 element there of Claim 1?
- 18 A. Yes, it is.
- 19 Q. Let me read that into the record. That is, a firewall
- 20 that is configured to intercept network resource requests
- 21 from a plurality of client users on an internal network,
- 22 said firewall being operative to authorize a network
- 23 resource request based upon a comparison of the contents of
- 24 at least part of one or more entries in said at least one
- 25 directory to an authorization filter wherein said

Jaeger - direct

- 1 authorization filter is generated based on a directory
- 2 schema that is predefined by said entity.
- 3 That is that particular element?
- 4 A. That's right.
- 5 Q. And if we could turn to Claim 8, which is G-122. Does
- 6 this particular element also appear in Claim 8 and the
- 7 dependent claims on Claim 8?
- 8 A. It appears in the independent claim, Claim 8, in the
- 9 preamble, I believe that's called.
- 10 Q. So it's an authentication method at a firewall?
- 11 A. Yes.
- 12 Q. It's at that firewall?
- 13 A. Yes.
- 14 Q. And does this firewall element appear also in Claim
- 15 15?
- 16 A. In this case, it appears at the end.
- 17 Q. At the very last element there?
- 18 A. Yes.
- 19 Q. Through a firewall?
- 20 A. Yes.
- 21 Q. If said authorization filter is satisfied?
- 22 A. That's correct.
- 23 Q. Is it your understanding that all the asserted claims,
- 24 including the dependent claims, require a firewall of some
- 25 sort?

1470

Jaeger - direct

- 1 A. That's my understanding, yes.
- 2 Q. How are the NG appliances different from a firewall?
- 3 A. As I said, the NG appliances don't look at the
- 4 individual packets. They put them back together into the
- 5 request. So they will look at the application level
- 6 request.
- 7 So in this case, one instance of it they will
- 8 look at is a web request. So they will build it back into
- 9 the web request.
- 10 The other aspect that is important in this
- 11 context to it not being a firewall is that the NG appliance
- 12 is configured to support specific applications. So, you
- 13 know, web, there is an e-mail as well. And you have to give
- 14 a few others. So if you created your own new service on a
- 15 computer somewhere and you opened up the network interface,
- 16 they are called ports, so that you could start to
- 17 communicate with your new service, the NG appliance would
- 18 not support that kind of communication.
- 19 But the firewall would enable you to control
- 20 that kind of communication.
- 21 Q. Just to be clear, is it your opinion that the NG
- 22 appliances are not a firewall?
- 23 A. It is my opinion that they are not a firewall.
- 24 Q. Can the NG appliances work with a firewall, JX-14?
- 25 A. Yes. A firewall and an NG appliance can be put into a



1471

Jaeger - direct

1 system together.

2 Q. Let's take a look at 3-6 of that exhibit. What does

3 this page here show you?

4 A. It shows me that the -- in the context of the patent I

5 will talk about outgoing requests. But the client requests

6 will in this case go to the firewall. The firewall might

7 redirect them to the NG appliance to make a decision, then

8 send the request out to the Internet.

9 Q. Is this consistent with your understanding that the NG

10 appliance can also work with the firewall?

11 A. Yes.

12 Q. Why don't we go to the next basis for your opinion?

13 A. Okay.

14 Q. We can take a look at Claim 8, which is G-121.

15 A. Okay. So the third reason I believe that the NG

16 appliances, it is my opinion that the NG appliances do not

17 infringe the '361 patent is that the NG appliances do not

18 query this directory server that we talked about after they

19 receive the network request.

20 Q. Thankfully, this claim is just numbered, so I won't

21 have to read it. Is that referring to 8(b) and (c), those

22 elements?

23 A. Also (a).

24 Q. As well as (a)?

25 A. Right. So relative to receiving a network request, we

1472

Jaeger - direct

1 are not then subsequently querying the directory in the NG

2 appliance.

3 Q. So is it your opinion that 8(a), (b) and (c) then are

4 missing from the NG appliances, those elements?

5 A. Those elements are not executed that way in the NG

6 appliance. That's missing. I am not sure of the definition

7 in this sentence.

8 Q. Fair enough. So is it your opinion, then, that the NG

9 appliances don't infringe Claim 8 and all the dependent

10 claims, which are 9 through 12 and 14, for this reason?

11 A. Yes, it is.

12 Q. Why don't we take a look at Claim 15, which is G-123.

13 Does this element appear in Claim 15?

14 A. Yes, it does.

15 Q. Where does it appear?

16 A. The first computer receives a network request, the

17 first computer readable program, I should say, receives a

18 network request. And then the second has to do with

19 querying the directory server. And the third has to do with

20 determining based on the result of the query what to do,

21 whether to allow the packet to go through.

22 Q. So for Claim 15, I want to make sure we have a clear

23 record, what we have highlighted here then are the elements

24 of the claim, the first portion reading, and I won't read

25 the whole thing, it starts first computer readable program

1473

Jaeger - direct

1 code, and continues on at an internal network. We go onto

2 the next element, which starts, second computer readable

3 program code. It ends, predefined by said entity. Then the

4 next element, which is third computer readable program code,

5 and it ends satisfy said authorization filter.

6 Those are the elements in your opinion that are

7 not performed by the NG appliances?

8 A. That's correct.

9 Q. What does it mean -- basically, what does all this

10 mean? We are talking about queries that come back from the

11 network request.

12 A. Right. So the way that I read the patent is that the

13 idea is that the network request is going to come in and we

14 have this directory server that has information about your

15 organization. So the idea is that you want to have your

16 firewall enforce your network policy based on the current

17 state of that directory server, you know, a complete state

18 of that.

19 Q. Utilizing this diagram that we have up here, maybe if

20 you want to use the laser pointer, you can.

21 A. Right. So as we mentioned at the beginning, the

22 patent is about the firewall having access to this directory

23 server here. If we do the request to the directory server

24 when the packet is received or after the packet is received,

25 then we are going to have access to, you know, pretty much

1474

Jaeger - direct

1 the current state of the directory server.

2 So relative to the NG appliance, the NG

3 appliance may be configured to work with the directory

4 server. But the interaction is independently generated

5 before the network request comes in. There are also

6 configuration issues with respect to that, that we will talk

7 about.

8 Q. Why is this important, the relationship between the

9 network request and the query?

10 A. This is important because if the query is done at some

11 point earlier, then someone might have modified the

12 directory server in some way, that now the information that

13 you are looking at where it has authorized the network

14 request isn't current.

15 Q. Why don't I show you JTX-56. Do you recognize this

16 document?

17 A. Yes, I do. I will give a little explanation. This is

18 part of the interaction between the inventors and their

19 attorneys and the Patent Office. So they are talking about

20 why the patent, the attorneys and the inventors are making a

21 case to the Patent Office why this patent is valid, why they

22 should award this patent, why the Patent Office should award

23 this patent. They are putting together an argument for that

24 to the Patent Office.

25 Q. If we turn to Page 11 of that document --

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Jaeger - direct

1 MR. FOSTER: Objection, Your Honor.  
 2 THE COURT: Basis?  
 3 MR. FOSTER: It is outside the scope of his  
 4 expert report and the claim construction.  
 5 (The following took place at sidebar.)  
 6 THE COURT: What is your response?  
 7 MS. KOBIALKA: Dr. Jaeger reviewed the  
 8 prosecution history and provided that in his report. That  
 9 is disclosed in his report. We are not talking about claim  
 10 construction. What we are talking about here is he is  
 11 setting forth what his understanding is in terms of how  
 12 these steps need to be performed as the claims are labeled,  
 13 A, B, C, D.  
 14 THE COURT: Has he revealed this in his analysis  
 15 in his report?  
 16 MS. KOBIALKA: Yes. That was his basis for  
 17 noninfringement.  
 18 MR. FOSTER: Your Honor, in the rebuttal expert  
 19 report that Dr. Jaeger gave, there is no reference to the  
 20 file history. The only reference to the file history is  
 21 that he reviewed it. There is nothing, no description of  
 22 this document anyplace in his report.  
 23 MS. KOBIALKA: He says he reviewed the  
 24 prosecution history. He relied on other things as well,  
 25 which he will testify about. But that included the

1 has indicated at our deposition we should have questioned  
 2 him because this is the basis. An expert report has to  
 3 specifically declare the basis of your opinion. This was  
 4 not declared. So I had no reason to depose him on that  
 5 subject matter.  
 6 THE COURT: It is not -- you will forgive the  
 7 poor analogy -- throwing darts at a board exercise that  
 8 counsel are put to at a deposition, Ms. Kobialka. You know  
 9 that. That is why Rule 26 is so specific on this particular  
 10 area of discovery. Go ahead.  
 11 MS. KOBIALKA: Well, that's part of the reason  
 12 why we disclosed all of the things he reviewed. They had  
 13 the opportunity to ask him, did you --  
 14 THE COURT: You have to give a reason, is what  
 15 counsel is saying.  
 16 MS. KOBIALKA: I understand.  
 17 THE COURT: Do you want to weigh in?  
 18 MS. KOBIALKA: My last point is that what he is  
 19 suggesting is every single document, every single pin cite,  
 20 would have to be provided to support his opinion. And that  
 21 is not what the Federal Rules require.  
 22 THE COURT: Do you want to get your rule book?  
 23 Let's go through it together. I always forget the section.  
 24 MS. KOBIALKA: 26.  
 25 THE COURT: Now we have all the italicized

Jaeger - direct

Jaeger - direct

1 prosecution history. He never said I didn't look at the  
 2 prosecution history. It was part of his disclosure.  
 3 THE COURT: This is in the history (indicating)?  
 4 MS. KOBIALKA: Yes. This is the file history of  
 5 the patent.  
 6 MR. SCHUTZ: We haven't had notice in terms of  
 7 his position. If it is in his report and you can show us...  
 8 THE COURT: You didn't have notice that he  
 9 relied on the prosecution history.  
 10 MR. FOSTER: All he said is that was one of the  
 11 things he reviewed. He didn't say relied on this in coming  
 12 to his conclusion in any of the definitions. He didn't rely  
 13 on it for disclaimer or any of these arguments. We need  
 14 notice of that.  
 15 MS. KOBIALKA: They sat and deposed him on all  
 16 of his opinions, the basis for his opinions. To the extent  
 17 they didn't ask these questions, they didn't cover it. This  
 18 is the basis of one of his noninfringement opinions as to  
 19 how these elements are performed. In his report he talks  
 20 about this very specifically.  
 21 THE COURT: You are saying he talks about this  
 22 very specifically, what you are holding in your hand.  
 23 MS. KOBIALKA: He didn't cite to this particular  
 24 page, no.  
 25 MR. FOSTER: Your Honor, if I may, Ms. Kobialka

1 language to deal with.  
 2 MR. SCHUTZ: Experts. This section here, I  
 3 think it's on Page --  
 4 THE COURT: We have to look at the newly  
 5 effective --  
 6 MR. SCHUTZ: I think the reports were done  
 7 before December.  
 8 I think it's 1603 is where it starts, Trial  
 9 Preparation, Experts.  
 10 THE COURT: Right.  
 11 MR. SCHUTZ: I am sorry, Page 162, the previous  
 12 page, disclosure of expert testimony.  
 13 THE COURT: So we are literally on the same  
 14 page. We are talking about 26(a). It's actually (a)(E).  
 15 It's actually(a)(1)(E)[2], I think, is what it is.  
 16 In any event, we are under the heading  
 17 Disclosure of Expert Testimony.  
 18 Go ahead, Ms. Kobialka.  
 19 MS. KOBIALKA: What it says here is that you  
 20 have to contain a complete statement of all opinions to be  
 21 expressed and the basis and reasons therefor.  
 22 There is no dispute right now whether or not he  
 23 provided that this is one of his bases of noninfringement.  
 24 If you continue on, it says any exhibits to be used as a  
 25 summary of or in support --

Jaeger - direct

1 THE COURT: It also says the data or other  
2 information considered by the witnesses in forming the  
3 opinions. Then go on, any exhibits.

4 MS. KOBIALKA: That's correct. It talks about  
5 exhibits.

6 He has identified the data that he relied on.  
7 He didn't identify each and every single one because we  
8 could go on for days and days about the potential  
9 information that he could have relied on for it.

10 THE COURT: But if we look at the letter of the  
11 rule as well as the spirit of the rule, of the entire body  
12 of the rule, which is to foster notice and to discourage  
13 trial by surprise, and therefore during the inception, or  
14 the most important phases, that is the discovery phase, but  
15 in this case the writing phase by the expert, that there be  
16 full disclosure to the other side so the other side has  
17 notice as to the areas that it wants to try to contest, must  
18 try to contest. That is in this case a specific document,  
19 which is, I guess -- I don't know if it was an exhibit or  
20 not.

21 MS. KOBIALKA: Yes. It was identified as one of  
22 the things that he reviewed and relied upon for his opinion.

23 MR. SCHUTZ: But not discussed in the body of  
24 his report.

25 THE COURT: But not discussed.

1480

Jaeger - direct

1 MR. FOSTER: Right. This is the only portion of  
2 the expert report --

3 THE COURT: You should see this, Ms. Kobialka.

4 MR. FOSTER: This is the only portion of the  
5 expert report that he identifies that he reviewed the file  
6 history. It's this list of all the things he reviewed. The  
7 file history itself is nearly 600 pages in this case. Now  
8 they are trying to go to a specific page and say that is the  
9 basis of one of his definitions. There is no end on this.

10 MR. HANNAH: Your Honor, moreover, you will  
11 remember during the testimony of Dr. Wallach, he got up on  
12 the stand and said that I did review the prosecution  
13 history. It had nothing to do with my opinion.

14 This witness has read the trial transcript of  
15 Dr. Wallach, and he is now rebutting that position of Dr.  
16 Wallach, stating, I have now read the prosecution history.  
17 It does in fact have bearing on this patent. And it should  
18 be in this order of the claims.

19 So he is merely rebutting the fact that Dr.  
20 Wallach said the prosecution history has nothing to do with  
21 the patent.

22 MR. FOSTER: Your Honor, the proper way would  
23 have been to actually cross-examine Dr. Wallach on any  
24 argument in the prosecution history and not now say that  
25 they can have an expert opine on the prosecution history.

Jaeger - direct

1 And I think that counsel is misstating the testimony. I  
2 don't believe Dr. Wallach made an affirmative statement that  
3 the prosecution history has nothing to do with the patent,  
4 which is what he is basing his argument on.

5 MR. HANNAH: The province of a rebuttal expert  
6 is to get up and rebut.

7 THE COURT: I am not sure that it is not proper  
8 rebuttal. I don't disagree, necessarily, with your  
9 opponent, about cross-examination. I am not sure that  
10 renders this improper rebuttal.

11 My concern is the issue of notice. That is  
12 really where, as they say, the rubber meets the road, Ms.  
13 Kobialka. I am trying to give you an opportunity to tell me  
14 why you think they have had adequate notice so they are  
15 prepared to do what they can with this witness on cross.

16 MS. KOBIALKA: I think they can definitely cross  
17 him. They have always known the prosecution history of one  
18 of the patents they are asserting is going to be at issue  
19 here. To the extent they are going to have an expert get up  
20 and not rely on anything in it, and it is critical to one of  
21 his opinions on infringement, we need to have the  
22 opportunity to rebut that.

23 Dr. Wallach didn't disclose it in his report,  
24 specifically. You know, there has been a certain amount  
25 of --

1482

Jaeger - direct

1 THE COURT: If it is critical to his opinion or  
2 noninfringement, why didn't he talk about it in his report?

3 MS. KOBIALKA: He did. This is the problem. He  
4 did talk about this issue. He relied on other things as  
5 well.

6 THE COURT: Then why don't you use the other  
7 things. I will let you do that. But I am not going to let  
8 you do this.

9 (End of sidebar conference.)

10 BY MS. KOBIALKA:

11 Q. We were talking about why it is important regarding  
12 the network request, then having to query. I would like to  
13 know, did you read any deposition testimony that supported  
14 your conclusion with regard to the ordering?

15 A. Yes. I read Mr. Chew's testimony, deposition  
16 testimony.

17 Q. What in Mr. Chew's testimony provides you with that  
18 basis to support your opinion?

19 A. Well, Mr. Chew's testimony told me that the main --  
20 well, that doing the query after the network request, as I  
21 said before, gave you the current state of the directory  
22 server. And this was of significant value -- I am  
23 paraphrasing, it's been a while since I read it -- of the  
24 patent itself.

25 Q. So it was important that the network request, and then

Jaeger - direct

Jaeger - direct

1 there was the query. Is that correct?  
 2 A. Yes.  
 3 Q. All right. Just remind us, is Mr. Chew an inventor on  
 4 the '361 patent?  
 5 A. Yes, he is.  
 6 Q. Now, let's turn to what the NG appliances do.  
 7 JTX-14.  
 8 Have you reviewed this document, JTX-14?  
 9 A. Yes, I have.  
 10 Q. Turning to this particular page, it's 3-2 -- can we  
 11 show the next page, too. Both of them at the same time,  
 12 which is also 3-3.  
 13 What do these pages tell you about the NG  
 14 appliances?  
 15 A. These pages tell me that the NG appliance comes with  
 16 its own database.  
 17 Q. Why is that important?  
 18 A. Well, this database stores information about the user  
 19 community that it will use in determining whether to  
 20 authorize a network, an application request, a URL request,  
 21 for example.  
 22 Q. So we are looking at 3-2, 3-3. Does this continue on  
 23 for a few pages?  
 24 A. Yes, it does. There are two database options that  
 25 they have.

1 So you will have a company, you might have major  
 2 organizations, departments, groups. And at the bottom you  
 3 will have individuals.  
 4 In computer science we call those leaves, which  
 5 would be the individual people, and there would be  
 6 information about those individual people, and you are going  
 7 to use that to determine whether to allow the request.  
 8 With the NG appliance, you can get the -- the  
 9 administrator can get a view of the entire directory server  
 10 and choose which specific groups they want to download.  
 11 What they will do is choose a specific set of groups, and  
 12 those groups will then be imported into the database. And  
 13 when we do this update, we have two days in this case, we  
 14 will import the same groups that have already been  
 15 configured.  
 16 Q. What we have just discussed, this supports your  
 17 opinion why the NG appliances do not infringe Claims 8  
 18 through 12, 14 and 15. Is that correct?  
 19 A. That is correct.  
 20 Q. Let's turn to your next opinion with regard to  
 21 noninfringement.  
 22 A. Okay. That's right. I start. It's my opinion, yes.  
 23 So the fourth reason is that the -- there is  
 24 claim language that the rules, these are called  
 25 authorization filters, that are used by a device that would

Jaeger - direct

Jaeger - direct

1 Q. Why don't we take a look at DTX-1069, 12-4. This is  
 2 the document that Dr. Wallach relied on.  
 3 What does this page tell you?  
 4 A. So this page describes how the administrators interact  
 5 with a directory server through the NG appliance. So if you  
 6 optionally wanted to import information from the directory  
 7 server to the NG appliance, into the NG appliances database,  
 8 you would configure that through the commands that they are  
 9 talking about there.  
 10 Q. If we go two pages beyond that, 12-6, what does this  
 11 tell you?  
 12 A. This tells me two things. One is how frequently you  
 13 will do this importation, so the administrator can set it up  
 14 so that the importation is done on a certain regularity  
 15 here. In this example, it says every two days. You can't  
 16 really read it from there.  
 17 Thank you.  
 18 So what's going to happen in this configuration  
 19 is that the NG appliance, every two days, is going to go and  
 20 import some information from the directory server.  
 21 Now, the section below this, the window below  
 22 this, what you can do is, you can choose which groups. So  
 23 we haven't really talked about what is in the directory.  
 24 But you can think of the directory as storing something that  
 25 looks like an organizational chart.

1 infringe on this claim, that these rules have a -- are  
 2 generated based on the, what's called the schema or  
 3 directory schema.  
 4 This is a very complex and subtle point. But  
 5 you could think of a schema, when you go to work somewhere  
 6 for the first time, you know, the company might give you a  
 7 form and ask you to fill out information about yourself,  
 8 what's your name, where do you live, when were you born,  
 9 these kinds of things.  
 10 So you would fill out this form. And the form,  
 11 the structure of the form would constitute what's analogous  
 12 to a schema. What a schema is is the structure of the  
 13 entries in the database. So it's, you know, if you are  
 14 familiar with spread sheets, they are the fields at the top  
 15 where you would have the employee name, here is where you  
 16 put the employee number, here is where you put where they  
 17 were born, where they live, so on and so forth. And every  
 18 employee would have a record in that directory, schema.  
 19 Those again would be the leaves in the directory itself.  
 20 Basically, you fill out this form, and then your  
 21 information gets placed in the directory, depending on what  
 22 groups you want.  
 23 Q. Turning to the claim language, this highlights the  
 24 language. Is it in the last portion of Claim 1,  
 25 authorization filter is generated based on a directory



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1 schema?

2 A. That's right.

3 Q. Okay. If we could turn to the next slide, 122. Is it

4 your understanding that this element appears in all of the

5 asserted claims of the '361 patent?

6 A. Yes, it does.

7 Q. Let's turn to Claim 8. Does it appear in 8(b)?

8 A. Yes, it does.

9 Q. Keep moving through, Claim 15?

10 A. Under the second computer readable program code.

11 Q. An authorization filter that is generated based on a

12 directory schema. Is that correct?

13 A. That is correct.

14 Q. Do the NG appliances base their authorization filter

15 on a directory schema?

16 A. So the authorization filter is the, in the NG

17 appliance, is the stuff that's stored in the NG appliance's

18 database. So it uses the information in its own database to

19 determine whether you are allowed to send a packet or not.

20 So this database is populated by information you

21 import from a directory. But the database base's structure,

22 that is the form that was used to determine what was in the

23 database, can be used without the directory. So this

24 structure or schema is independent of the directory itself.

25 Q. Why don't we turn to DTX-1069 at 12-4.

1 Q. Can we turn to the next slide?

2 A. And Claim 11 and Claim 12.

3 Q. What does it mean when they use this language per-user

4 authentication scheme?

5 A. So the term authentication has a very specific meaning

6 in computer security. So we talk in computer security about

7 Alice and Bob. That's A and B, we just use names for them.

8 The idea of an authentication scheme is that it enables you

9 to really, really, to verify that you really are talking to,

10 say, Alice at a particular time.

11 I could send you a message -- I am not Alice,

12 presumably. I could say, you know, I am Alice. And, you

13 know, you could choose to believe that I am Alice or not.

14 But you haven't really verified whether I am Alice. And in

15 this case I am not Alice.

16 In order to do authentication, in order to

17 really know whether you are talking to Alice or not, in

18 order to implement a scheme that would verify that, you need

19 to have some secret that you share with Alice.

20 So what we will talk about mostly are passwords,

21 and that's mostly what's used these days. We wish we could

22 use more things. Traditionally, and I think you probably

23 all have, if you use computers, frequently will have

24 passwords you will use to authenticate. The idea is that

25 the server in your authenticating, too, will have some

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1 Did you review Dr. Wallach's testimony regarding

2 this particular page?

3 A. Yes, I did.

4 Q. Does this page define authorization filters or

5 anything on this page? Is there anything that defines

6 authorization filter?

7 A. This page describes the process of how you set up

8 import and export. So it doesn't describe the structure of

9 the filter. It describes how you would get information to

10 fill in the values for particular users from the directory.

11 Q. Let's turn to the last bit. Why don't we take a look

12 at Claim 4, which is 121.

13 So in Claim 4, do you see the element, a

14 per-user authentication scheme?

15 A. Yes, I do.

16 Q. Do you have an opinion with regard to all the claims

17 that have some form of authentication scheme in them?

18 A. Yes, I do.

19 Q. What is that opinion?

20 A. My opinion is that the NG appliances do not implement

21 an authentication scheme, do not.

22 Q. Let's quickly look at which claims have this

23 particular requirement. So we have identified Claim 4. Is

24 there any other ones on this page?

25 A. There is Claim 4, Claim 5.

1 password, will have some secret. And Alice will have to

2 prove to you that she knows that secret. If she can't prove

3 to you that she knows that secret, you are not going to

4 authenticate her. You are going to say, you are not Alice.

5 You have not passed authentication.

6 And the NG appliances themselves do not

7 implement an authentication scheme. They don't store such

8 secrets. They don't implement the mechanism that uses such

9 secrets in order to authenticate Alice or Bob or anybody

10 else.

11 Q. Looking at Claim 8, do you see where it reads at the

12 beginning an authentication method?

13 A. Yes, I do.

14 Q. Is this also that same --

15 A. So this is a bigger method. What they are saying here

16 is that you are going to gain access to the network. You

17 are going to be able to submit a network request by

18 authenticating. And that describes the whole -- it

19 describes the whole method. The whole method basically will

20 enable the system to authenticate you as Alice or Bob.

21 Using that information and other rules about

22 whether you are allowed to send a request to a particular

23 URL, it will then -- it doesn't say that. I am talking

24 about the Finjan one. It will basically use whatever -- it

25 will authenticate you, and if you succeed in authenticating,

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1 it may let you go through. It doesn't really talk about --  
 2 sorry.  
 3 It will succeed in authenticating and pass the  
 4 authorization filter and let it go through.  
 5 Q. The NG appliances don't utilize an authentication  
 6 method?  
 7 A. They do not implement an authentication method at a  
 8 firewall consisting of those steps, no.  
 9 Q. Okay. So that, then, supports your opinion of  
 10 noninfringement with regard to Claims 8 through 12 and 14.  
 11 Correct?  
 12 A. Correct.  
 13 Q. Why don't we turn to the next slide for Claim 15. I  
 14 believe this authentication process also appears in the  
 15 beginning, where it says a computer program product for  
 16 enabling a processor in a computer system to implement an  
 17 authentication process.  
 18 A. That's correct.  
 19 Q. Is that the same type of thing we had just discussed?  
 20 A. Yes, it is.  
 21 Q. Is it also your opinion that there is no infringement  
 22 of Claim 15 in connection with the authentication process?  
 23 A. That is correct.  
 24 Q. There is also some language, per service, that was  
 25 used, I believe, in Claim 5. What does per service mean?

1 Q. Do you have an opinion regarding whether Finjan has  
 2 induced infringement of the asserted claims of the '361  
 3 patent as a result of its NG appliances?  
 4 A. My opinion is they have not induced infringement, the  
 5 NG appliance has not induced infringement of the '361  
 6 claims.  
 7 Q. Has there been any evidence of any inducing  
 8 infringement that you were able to read in Dr. Wallach's  
 9 testimony?  
 10 A. I saw no specific case.  
 11 Q. Do you have any other bases for your opinion regarding  
 12 no inducing of infringement by Finjan?  
 13 A. Yes, I do.  
 14 Q. Are those the same as you have discussed already this  
 15 morning?  
 16 A. Yes.  
 17 Q. Why don't we turn to now the assertion of invalidity  
 18 with regard to the '361 patent.  
 19 What was your determination regarding whether or  
 20 not the asserted claims of the '361 patent were valid?  
 21 A. So my determination was that the claims of the '361  
 22 patent are invalid.  
 23 Q. Was it based on your theory of anticipation and  
 24 obviousness?  
 25 A. Yes. It was based on both.

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1 A. So a service is some, basically, program that is  
 2 listening on the network. So there are services for logging  
 3 into computers. There are services for sending e-mail.  
 4 There are services for using a web. And so these define  
 5 specific network facing is the term we will use,  
 6 functionality that you can communicate with over the  
 7 Internet.  
 8 So we have in the patent two types of  
 9 authentication. One is per user, and one is per service.  
 10 The idea -- the distinction they are making is that, in my  
 11 opinion, is that you can authenticate as Alice or Bob. You  
 12 can say, okay, I will be Bob this time. So you are Bob.  
 13 And I want to gain access to the network. And so the  
 14 firewall will run some scheme to authenticate that you are  
 15 really Bob, and then based on determining that you are Bob,  
 16 it will let you have whatever access that you want, that it  
 17 will authorize.  
 18 The other thing is you may ask to authorize for  
 19 a specific service, maybe for e-mail. So you will just ask  
 20 to authorize for that particular service. So you are going  
 21 to say I am going to authorize Bob to use the e-mail  
 22 service. And that is all.  
 23 Q. Dr. Jaeger, do you have an understanding of what is  
 24 meant by inducing infringement?  
 25 A. Yes.

1 Q. What is your understanding of what we mean them by  
 2 anticipation?  
 3 A. So by anticipating, my understanding is that this  
 4 requires one reference to disclose or one system to disclose  
 5 all of the elements of all the claims in the patent, in this  
 6 case the '361 patent.  
 7 Q. And what is your understanding of obviousness?  
 8 A. So my understanding of obviousness is that obviousness  
 9 requires that one obtain one or more references, and these  
 10 references, with some -- if you have more than one you have  
 11 to show motivation. Would it be sufficient for someone  
 12 skilled in the state of the art to be able to fulfill all  
 13 the elements of all the claims in the patent?  
 14 Q. What reference did you rely upon to form your opinion  
 15 regarding invalidity?  
 16 A. So I used the Check-Point Firewall 1, its architecture  
 17 and the administration document.  
 18 Q. It's PTX-188.  
 19 Is this the document that you are referring to?  
 20 A. Yes, it is.  
 21 Q. Do you refer to it sometimes as the Check-Point  
 22 reference or the CP reference?  
 23 A. I think usually the CP reference.  
 24 Q. Now, was this particular reference cited to the Patent  
 25 Office during the time that they were applying for a patent

1 that claim. You must consider each patent claim separately,  
2 as I have told you several times now.

3 A claim limitation is literally present if it  
4 exists in the accused product, just as it is described in  
5 the claim language, either as I have explained that language  
6 to you, or if I did not explain it, as you understand it.

7 I will explain something called the doctrine of  
8 equivalents. I mentioned it earlier.

9 As I said, an accused infringer can directly  
10 infringe a claim of a patent either literally or under the  
11 doctrine of equivalents.

12 Now, under the doctrine of equivalents, an  
13 accused product can infringe an asserted patent claim if it  
14 performs steps that are identical or equivalent to the  
15 requirements of the claim. If the accused product does not  
16 perform an identical or equivalent step to even onestep of  
17 that particular asserted patent claim, the accused product  
18 cannot infringe the claim under the doctrine of equivalents.  
19 Thus, in making your decision under the doctrine of  
20 equivalents, you must look at each individual requirement of  
21 the asserted patent claim and decide whether the accused  
22 product performs an identical or equivalent step to that  
23 individual claim requirement.

24 A step performed by an accused product is  
25 equivalent to a requirement of an asserted if a person of

1 ordinary skill in the field would think that differences  
2 between the step and the requirement were not substantial as  
3 of the time of the alleged infringement. One way to decide  
4 whether any difference between a requirement of an asserted  
5 claim and a step performed by the accused product is not  
6 substantial is to consider whether, as of the time of the  
7 alleged infringement, the step of the accused product  
8 performed substantially the same function, in substantially  
9 the same way, to achieve substantially the same result as  
10 the requirement in the patent claim.

11 In deciding whether any difference between a  
12 claim requirement and the accused product is not  
13 substantial, you may consider whether, at the time of the  
14 alleged infringement, persons of ordinary skill in the field  
15 would have known of the interchangeability of the step with  
16 the claimed requirement. The known interchangeability  
17 between the claim requirement and the step of the accused  
18 product is not necessary to find infringement under the  
19 doctrine of equivalents. The same step of the accused  
20 product may satisfy more than one element of a claim.

21 This is a discussion about inducing  
22 infringement.

23 A person induces patent infringement if he or  
24 she purposely causes, urges, or encourages another to  
25 infringe a patent. Inducing infringement cannot occur

1 unintentionally. This is different from direct  
2 infringement, which, as I have told you, can occur  
3 unintentionally. In order to induce infringement, there  
4 must first be an act of direct infringement and proof that  
5 the defendant knowingly induced infringement with the intent  
6 to encourage the infringement. Intent to cause the acts  
7 that produce direct infringement is not enough to show  
8 inducement of infringement. Finjan must have affirmatively  
9 intended to cause direct infringement and must have known or  
10 should have known that its actions would induce actual  
11 infringement. It must be established that Finjan possessed  
12 specific intent to encourage another's infringement and not  
13 merely that Finjan had knowledge of the acts alleged to  
14 constitute inducement. Secure Computing has the burden of  
15 showing that Finjan induced infringing acts and that Finjan  
16 knew or should have known their actions would induce actual  
17 infringement.

18 Willful infringement.

19 Finjan contends that Secure Computing has  
20 willfully infringed the claims of its patents. If you find,  
21 on the basis of the evidence and the law as I have explained  
22 it, that Secure Computing directly infringes at least one  
23 valid and asserted claim of the '194 patent, the '780 patent  
24 or the '822 patent, you must then decide whether or not  
25 Secure Computing's infringement was willful.

1 Although the patent owner must prove  
2 infringement by a preponderance, or by the preponderance of  
3 the evidence standard, the burden of proving that the  
4 infringement was willful is the clear and convincing  
5 standard.

6 Proof of willful infringement requires a showing  
7 of objective recklessness. To establish willful  
8 infringement, a patent owner must prove by clear and  
9 convincing evidence that the alleged infringer proceeded  
10 with the activities that are accused of infringement with an  
11 objectively high likelihood that its actions constituted  
12 infringement of a valid patent. The state of mind of the  
13 alleged infringer is not relevant to this objective inquiry.  
14 If the patent owner proves that objective threshold, then  
15 the patent owner must prove that the objectively high risk  
16 or likelihood of infringement was either known, or so  
17 obvious that it should have been known, to the accused  
18 infringer. The accused infringer's state of mind is  
19 relevant to this second inquiry.

20 The fact that you may have determined that the  
21 patent is infringed does not alone mean that the  
22 infringement was willful.

23 On to validity, or invalidity.

24 Only a valid patent may be infringed. For a  
25 patent to be valid, the invention claimed in the patent must

1 reason to pursue the known options within his or her  
2 technical grasp. If this leads to the anticipated success,  
3 it is likely the result of ordinary skill and common sense,  
4 not innovation.

5 In deciding obviousness, you must avoid using  
6 hindsight; that is, you should not consider what is known  
7 today or what was learned from the teachings of the patent.  
8 You should not use the patent as a roadmap for selecting and  
9 combining items of prior art. You must put yourself in the  
10 place of the person of ordinary skill at the time the  
11 invention was made.

12 In determining whether or not these claims would  
13 have been obvious, you should make the following  
14 determinations:

15 First, what is the scope and content of the  
16 prior art?

17 Second, what differences, if any, are there  
18 between the invention of the claims of the patent and the  
19 prior art?

20 Next, what was the level of ordinary skill in  
21 the art at the time the invention was made?

22 Next, are there any objective indications of  
23 nonobviousness?

24 Against this background, you must decide whether  
25 or not the invention covered by the patent claims of

1 Finjan's patents would have been obvious.

2 I will say it again. In this case, Secure  
3 Computing contends that Claims 1 through 14, 24 through 30,  
4 32 through 36 and 65 of the '194 patent are invalid because  
5 they are rendered obvious by combinations of the following:  
6 the Shaio reference, the FWTk reference, the Hershey  
7 reference, the Lo 1991 reference, the Lo 1994 reference, the  
8 Ji reference, that is the Ji 1995 reference, the Chen  
9 reference, the Authenticode reference, and the Signed Java  
10 reference.

11 Now, Secure Computing contends Claims 1 through  
12 6, 9 through 14 and 18 of the '780 patent are invalid  
13 because they are rendered obvious by the knowledge of one of  
14 ordinary skill in the art in combination with known methods  
15 of applying digital signature to code, such as the  
16 Authenticode reference and the Signed Java reference.  
17 Secure Computing contends that Claims 4, 6, 8, 12, and 13 of  
18 the '822 patent are invalid because they are rendered  
19 obvious by the Ji 1997 reference. If you find that Secure  
20 Computing has proved by clear and convincing evidence that  
21 these claims are obvious, you must find that the claims are  
22 invalid.

23 In this case, Finjan contends that Claims 1  
24 through 5, 7 through 12, and 14 through 15 of the '361  
25 patent are invalid because they are rendered obvious by the

1 CP reference, the LDAP reference, the LDAP authentication  
2 reference, and the AD reference. Finjan contends that Claim  
3 37 of the '010 patent is invalid because it is rendered  
4 obvious by the SESAME reference, the SAM reference, the  
5 Apache reference and the RBAC reference. If you find that  
6 Finjan has proved by clear and convincing evidence that  
7 these claims are obvious, then you must find that the claims  
8 are invalid.

9 Now I will describe in more detail the specific  
10 determinations you must make in deciding whether or not the  
11 claimed invention would have been obvious.

12 Determining the scope and content of the prior  
13 art means that you should determine what is disclosed in the  
14 prior art, relied on by Finjan and Secure Computing. You  
15 must decide whether the prior art was reasonably relevant to  
16 the particular problem the inventor faced in making the  
17 invention covered by the patent claims. Such relevant prior  
18 art includes prior art in the field of the invention, and  
19 also prior art from other fields that a person of ordinary  
20 skill would look to when attempting to solve the problem.

21 Now, in determining the differences between the  
22 invention covered by the patent claims and the prior art,  
23 you should not look at the individual differences in  
24 isolation. You must consider the claimed invention as a  
25 whole and determine whether or not it would have been

1 obvious in light of the prior art to a person of ordinary  
2 skill at the time of the invention.

3 It is common sense that familiar items may have  
4 been obvious beyond their primary purposes, and a person of  
5 ordinary skill often will be able to fit the features  
6 multiple prior art together, like pieces of a puzzle.  
7 Multiple references in the prior art can be combined to show  
8 that a claim of a patent is obvious. Any need or problem  
9 known in the field and addressed by the patent can provide a  
10 reason for combining the elements in the manner claimed. To  
11 determine whether there was an apparent reason to combine  
12 the known elements in the way a patent claims, you can look  
13 to interrelated teachings of multiple patents, to the  
14 effects of demands known to the design community or present  
15 in the marketplace, and to the background knowledge  
16 possessed by a person of ordinary skill in the field or in  
17 the art. Neither the particular motivation of the person of  
18 ordinary skill nor the alleged purpose of the patentee  
19 controls. One of ordinary skill is not confined only to  
20 prior art that attempts to solve the same problem as the  
21 patent claim.

22 In deciding whether to combine what is described  
23 in various items of prior art, you should consider whether  
24 there was an apparent reason for a skilled person to combine  
25 the known elements in the fashion claimed by the patent at



1 Well, it's because Mr. Degen considered the real  
2 evidence, and Mr. Parr put a turtle on a fence post. That's  
3 what he did. Mr. Parr said, well, I would like to have  
4 operating profit, product-specific operating profit. But  
5 there is no such information, so I have to do some jiggering  
6 with the numbers, and I came up with this really high  
7 royalty rate.

8 What did Mr. Degen do? What Mr. Degen did is he  
9 looked at three specific documents. First, let's go to  
10 Exhibit 1340. You have seen this. This is where he takes  
11 all the information on the operating profits, specific  
12 information of Webwasher, and he puts it in this chart. And  
13 he calculates an operating profit. And the number he comes  
14 up with is 16 percent.

15 One of the things we know he did in this case  
16 was he did not take into account the operating profit for  
17 Webwasher when CyberGuard owned it. If he had done that,  
18 the 16 percent would have been a lower number, because as  
19 you can see, CyberGuard never made any money when they had  
20 this product. It was down to 16 percent. Where did he get  
21 that information from? The same place Mr. Parr could have.  
22 There were three documents. Exhibits, Defendants' Exhibits  
23 1319, 1320 and 1321. That is 1319, 1320, and 1321. You  
24 have seen them before. I don't need to flash them up here  
25 again. I will just flash up, you know, one of them I think

1632

1 here.

2 I think it was Page 2 here, we talked about was  
3 the source of some numbers, as you can see, it was, you  
4 know, consolidated Webwasher revenues. It's packed full of  
5 all the financial information. And, you know, this is not  
6 made-up information, folks.

7 The date of this information -- let's look at  
8 this. The date of this information is June 30, 2005. There  
9 was no lawsuit on June 30, 2005. There was no threat of a  
10 lawsuit on June 30, 2005. This was CyberGuard going about  
11 their business, keeping numbers in the ordinary course of  
12 their business.

13 Mr. Parr had this information. He had this  
14 document. And he had two other product-specific documents.  
15 He chose to ignore them and not use them.

16 He decided, instead of looking at the actual  
17 numbers and the actual facts, he was going to put a turtle  
18 on a fence post. But he didn't stop there. He didn't stop  
19 there.

20 That just is one of the starting spots.

21 So you have this number of 16 percent. He had a  
22 much higher number. Then what do you do? You decide, well,  
23 you can take a quarter to a third. Mr. Parr took a third,  
24 about 32 percent, actually, and Mr. Degen took a quarter.  
25 Why did he do that? Mr. Degen testified that Mr. Parr said

1 that Webwasher wasn't willing to license their product. But  
2 that's not true. And we looked at three specific instances  
3 where they had agreed to license their product.

4 I am going to show you one of those, which I  
5 will call the Alladin letter, it is Exhibit 1075. As you  
6 can see, this is a letter about the patented technology from  
7 Finjan that he is offering to license.

8 And it includes a reference to the '194 patent.  
9 And on the last page, you know, you have seen this  
10 paragraph, where it clearly shows that you need to make  
11 arrangements if Alladin wants to use our technology and it  
12 needs to be authorized, in other words, a license.

13 So there was Webroot letter that we looked at,  
14 the Alladin letter, and, of course, there is the Microsoft  
15 license. Let's talk about that Microsoft license for a  
16 moment.

17 I am not going to mention the numbers in it,  
18 because I would like Mary Bunch to be able to stay in the  
19 room here. Here is what we know about the Microsoft  
20 license.

21 The Microsoft license was for all their patents.  
22 All of them. All their patents, all their patent  
23 applications, all their continuing applications. All their  
24 foreign patents and foreign applications. You remember what  
25 the number is. Think about that number and think about the

1634

1 number that they want in this case.

2 Ask yourself this: They have given the keys to  
3 their company, all their patents and all their technology,  
4 to the largest, what you heard at least two of their own  
5 witnesses say, the largest software company in the world.  
6 The largest software company in the world has the ability to  
7 compete with them, has what Mr. Parr repeatedly referred to  
8 as freedom to operate.

9 They don't have to pay anything else. They  
10 don't have to pay yearly fees, nothing.

11 What have they done in this Court? They have  
12 said, see this turtle up here, it's 18 percent for two years  
13 and no freedom to operate. No freedom to operate.

14 My mother would call that unmitigated gall.  
15 That's what it is.

16 One other point on this before we move on.

17 The last factor that the damage experts consider  
18 is called the hypothetical negotiation, which is, you know,  
19 when you come with a royalty rate under this Georgia-Pacific  
20 factor by having the two parties in a room on the eve of  
21 negotiations, eve of use of the technology, which would be  
22 in late '05. So you have got Finjan on one side of the room  
23 and Webwasher at the time, CyberGuard -- CyberGuard recently  
24 purchased Webwasher -- on the other side. And you would  
25 have Finjan coming into the room saying, we want 18 percent.

1 them testified about that.

2 I think it is a fair comment on the opportunity  
3 to examine evidence and not, I think especially in light of  
4 the serious copying charges that have been routinely levied  
5 here in this courtroom.

6 THE COURT: I agree that they have alleged  
7 copying in support of, I gather, among other things, their  
8 contentions about willful infringement, their claim of  
9 willful infringement. That question -- and I will let Mr.  
10 Andre respond -- is, in your view, does it open the door to  
11 fair comment to the extent that it invites the jury to  
12 disregard an instruction that I gave them?

13 MR. SCHUTZ: It was not certainly not intended  
14 by me to disregard the instruction.

15 THE COURT: I am not accusing you of that. I am  
16 just asking if you don't think that might have happened.

17 MR. SCHUTZ: No, I don't.

18 One other comment. He did also put up on the  
19 screen testimony and elicited from his witness to do a  
20 Finjan search. I couldn't sit there and not comment. They  
21 found the word Finjan in our source code. So I think it was  
22 fair comment to say he never then said it's the same source  
23 code as this.

24 The implication that I submit counsel was trying  
25 to leave this jury with was that because the word Finjan was

1 in the source code, which they flashed up here again, that  
2 we copied the source code. I think that is the clear  
3 implication that counsel was trying to get. I am sure he  
4 will deny it.

5 I think my comment was eminently reasonable and  
6 fair.

7 THE COURT: I don't disagree with your assertion  
8 with regard to the likely, the intended use and inference  
9 that they would like the jury to draw. I don't disagree  
10 with that.

11 I am just not sure I still don't have the  
12 concern.

13 Let me hear.

14 MR. ANDRE: Your Honor, when I heard the  
15 comment, I was concerned. We should be comparing product to  
16 claims. When I heard that, in a particular infringement  
17 case, it is the accused products to the claims as  
18 interpreted by the Court. My ears perked up as well,  
19 because I think there is going to be a product-to-product  
20 comparison for the infringement. Copying is an issue on  
21 willfulness, not infringement itself. I do have that  
22 concern, as Your Honor does.

23 THE COURT: Well, I am simply going to remind  
24 the jury -- I am not going to comment on your comment. I am  
25 going to remind the jury it is their obligation to follow my

1 instructions and I have instructed them that you do not  
2 compare products, you compare claims to accused products.  
3 MS. KOBIALKA: There was an exhibit that was  
4 never displayed to the jury. This is the Microsoft license  
5 we had to close the courtroom for. They are insisting it  
6 needs to go back to the jury.

7 MR. ROVNER: It was never shown.

8 MR. SCHUTZ: That is fine.

9 (End of sidebar conference.)

10 THE COURT: Before you go back, ladies and  
11 gentlemen, I simply want to remind you of an earlier  
12 instruction that I gave you. You got so many.

13 But that is, your job is, of course, to follow  
14 my instructions, but to remember in discharging your  
15 responsibility to determine whether there is infringement on  
16 either side, because there are patents being asserted,  
17 patents being asserted by both parties and certain claims of  
18 both patents being asserted, you must compare the claim of  
19 the asserted patent to the accused product.

20 It's not a comparison of products. It's a  
21 comparison of claim to product. Okay?

22 So, Ms. McDavid, will you swear our jury  
23 officer.

24 (Jury officer sworn.)

25 THE COURT: In case you didn't hear, he has been

1 sworn to keep you safe and keep anyone from bothering you.

2 As I told you in my closing instruction, your  
3 first duty, again, conduct your deliberations the way you  
4 want, but I am suggesting that you first pick a foreperson.

5 I then would suggest that, given the hour of the day, you  
6 determine whether you want to begin the deliberations this  
7 evening or whether you want to come back tomorrow morning  
8 and begin them at 9:00.

9 We will await word from you through the  
10 foreperson that you select. You can communicate that  
11 through your jury officer.

12 (At 3:50 p.m. the jury left the courtroom.)

13 THE COURT: So, counsel, what I need from you is  
14 to make sure Ms. McDavid has contact information for you.  
15 If they decide they don't want to continue to deliberate, I  
16 won't need you. I will release them back from the jury  
17 room. And they will be back here tomorrow at 9, as you  
18 heard.

19 Good luck, counsel.

20 MR. ANDRE: Your Honor, is it okay if we wait  
21 here to see if they are going to deliberate tonight or not?

22 THE COURT: You can wait if you want. We can  
23 call and notify you, if you would like.

24 We will call Delaware counsel.

25 MR. ROVNER: Your Honor, I will file those jury

1 instructions that you read when I get back to the office.

2 They have not been filed.

3 THE COURT: I have the originals. We will scan  
4 them in.

5 MR. ROVNER: That is fine.

6 THE COURT: Thank you, counsel.

7 (Court recessed.)

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10 Reporter: Kevin Maurer

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